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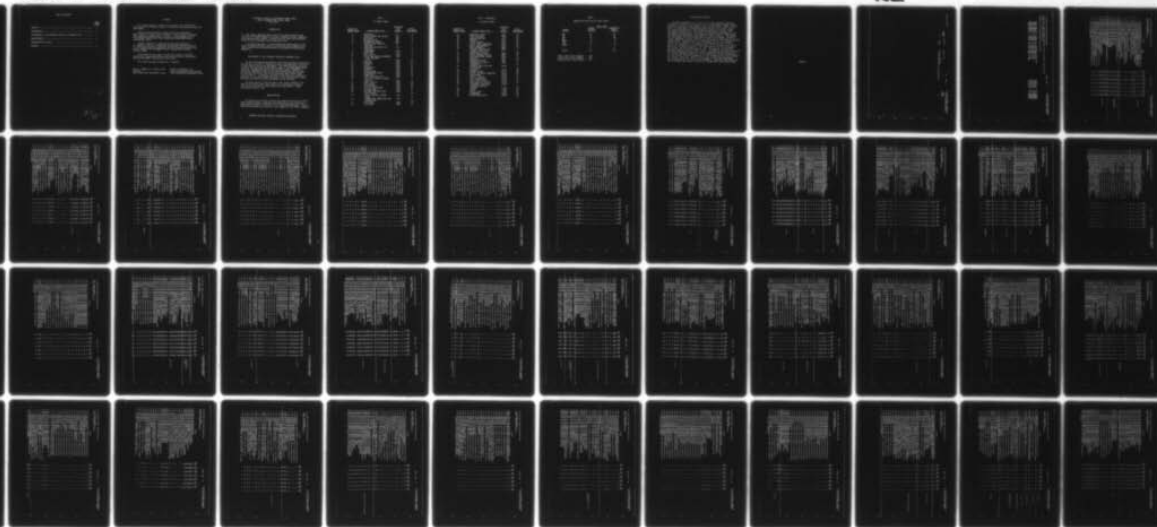
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ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT, AVIONIC COMMU--ETC.(U)
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OCCUPATIONAL SURVEY REPORT

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ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT,
AVIONIC COMMUNICATIONS
CAREER LADDER,
AFSC 328X0.

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PREFACE

This report presents a summary of the results of a detailed Air Force Electronic Principles Survey of the Avionic Communications Specialty, AFSC 328X0.

The Electronic Principles Inventory (EPI) was developed by Major Thomas J. O'Connor and Mr. Hendrick W. Ruck and the survey data were analyzed by Captain Leon J. Tauscher. All are members of the Occupational Survey Branch, USAF Occupational Measurement Center, Lackland AFB, Texas.

Computer programs for analyzing the data were designed by Dr. Raymond E. Christal, Occupational and Manpower Research Division, Air Force Human Resources Laboratory (AFHRL), and were written by the Project Analysis and Programming Branch, Computational Sciences Division, AFHRL.

Distribution of this report is made upon request to the USAF Occupational Measurement Center, attention of the Chief, Occupational Survey Branch (OMY), Lackland AFB, Texas 78236.

This report has been reviewed and is approved.

JAMES A. TURNER, JR., Colonel, USAF
Commander
USAF Occupational Measurement Center

WALTER E. DRISKILL, Ph.D.
Chief, Occupational Survey Branch
USAF Occupational Measurement Center

ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT
AVIONIC COMMUNICATIONS CAREER LADDER
AFSC 328X0

INTRODUCTION

— This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Avionic Communications Specialty (AFSC 328X0). The data for this report were collected during the period December 1976 through March 1977.

This report describes: (1) development and administration of the survey instrument; and (2) electronic principles used by DAFSC 5-skill level personnel both CONUS and overseas and assigned to selected major commands. ↑

DEVELOPMENT OF THE ELECTRONIC PRINCIPLES INVENTORY (EPI)

The EPI was developed by personnel from the Occupational Survey Branch who were well qualified in theoretical physics and electronics, as well as in task analysis and survey development. Over 300 maintenance personnel from SAC, TAC, ADC, MAC, and AFCS participated in the development of the inventory. Representing the five ATC training centers, electronics experts who averaged 12 years of maintenance experience and four years of electronic principles instruction experience spent several weeks refining the EPI. In addition, personnel at the Electrical Engineering Department of the USAF Academy and the Air Force Human Resources Laboratory were consulted during the development of the inventory.

The final version of the EPI used in this survey contained 1,257 items in 62 subject matter areas covering all electronic principles training given at the five ATC technical training centers. Table 1 lists the 62 subject areas.

ADMINISTRATION

The Electronic Principles Inventory was administered by mail to AFSC 328X0 airmen worldwide. Responses from 1001 5-skill level individuals represented 67 percent of the total of all DAFSC 32850 personnel. Table 2 shows the percentage distribution by major command of the survey incumbents.

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TABLE 1
EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
1	MATHEMATICS	A1	2
2	DIRECT CURRENT AND VOLTAGE	A15	2
3	RESISTANCE	A24	2
4	MULTIMETER USES	B52	3
5	ALTERNATING CURRENT	B61	4
6	INDUCTORS AND INDUCTIVE REACTANCE	B67	4
7	CAPACITORS AND CAPACITIVE REACTANCE	C92	5
8	TRANSFORMERS	C128	6
9	MAGNETISM	C171	7
10	RCL CIRCUITS	D185	8
11	SERIES AND PARALLEL RESONANCE (TIME CONSTANTS)	D229	9
12	FILTERS	D239	10
13	COUPLING	E261	11
14	SOLDERING	E273	12
15	RELAYS	E294	12
16	MICROPHONES	F314	13
17	SPEAKERS	F327	13
18	OSCILLOSCOPES	F342	13
19	SEMICONDUCTOR DIODES	G354	14
20	TRANSISTORS	G404	16
21	TRANSISTOR AMPLIFIERS	G428	17
22	SOLID-STATE SPECIAL PURPOSE DEVICES	H477	19
23	POWER SUPPLIES	H483	19
24	OSCILLATORS	H512	20
25	MULTIVIBRATORS	I539	21
26	LIMITERS AND CLAMPERS	I555	21
27	ELECTRON TUBES	I565	21
28	ELECTRON TUBE AMPLIFIERS AND CIRCUITS	J609	23
29	SPECIAL PURPOSE ELECTRON TUBES	J616	23
30	HETERODYNING, MODULATION, AND DEMODULATION	J632	24
31	AM SYSTEMS	K638	24
32	FM SYSTEMS	K666	25

TABLE 1 (CONTINUED)

EPI SUBJECT AREAS

<u>SEQUENCE OF SUBJECT AREAS</u>	<u>SUBJECT AREA TITLE</u>	<u>BEGINNING ITEM NUMBER</u>	<u>GPSUM PAGE NUMBER</u>
33	NUMBERING SYSTEMS	K685	25
34	LOGIC FUNCTIONS	L695	26
35	BOOLEAN EQUATIONS	L708	26
36	COUNTERS	L733	27
37	TIMING CIRCUITS	M757	28
38	USE OF SIGNAL GENERATORS	M769	28
39	MOTORS AND GENERATORS	M779	29
40	METER MOVEMENTS	N808	29
41	SATURABLE REACTORS AND MAGNETIC AMPLIFIERS	N818	30
42	WAVESHAPING CIRCUITS	N834	30
43	SINGLE SIDEBAND SYSTEMS	O845	31
44	PULSE MODULATION SYSTEMS	O875	32
45	ANTENNAS	O914	33
46	TRANSMISSION LINES	P953	34
47	WAVEGUIDES AND CAVITY RESONATORS	P984	36
48	MICROWAVE AMPLIFIERS AND OSCILLATORS	P1034	37
49	REGISTERS	Q1110	40
50	STORAGE DEVICES	Q1117	40
51	DIGITAL TO ANALOG CONVERTERS	Q1126	40
52	PHANTASTRONS	Q1140	41
53	SCHMITT TRIGGERS	R1141	41
54	CABLE FABRICATION	R1144	41
55	INPUT/OUTPUT DEVICES	S1146	41
56	PHOTO SENSITIVE DEVICES	S1149	41
57	SYNCHRONOUS VIBRATIONS (CHOPPER CIRCUITS)	S1150	41
58	INFRARED	T1159	42
59	LASERS	T1186	42
60	DISPLAY TUBES	T1220	43
61	PROGRAMMING	U1234	44
62	DB AND POWER RATIOS	U1255	44

TABLE 2
COMMAND REPRESENTATION OF SURVEY SAMPLE

<u>COMMAND</u>	<u>DAFSC 32850</u>	
	<u>PERCENT ASSIGNED</u>	<u>PERCENT OF SAMPLE</u>
TAC	22	22
MAC	21	22
SAC	19	26
ATC	6	6
USAFE	9	7
ADC	6	7
OTHER	17	10
	<hr/>	<hr/>
TOTAL	100	100

Total 5-skill level Assigned - 1497
 Total 5-skill level Sampled - 1001
 Percent 5-skill level Sampled - 67%

PRESENTATON OF RESULTS

Personnel responded "yes" or "no" to the 1,257 electronic principles questions as related to their present job. A Group Summary (GPSUM) computer printout is provided in the Appendix portion of this report. Page 1 of the GPSUM lists the seven selected groups identified for this report. Pages 2-44 show the percentage of the incumbents responding to the EPI items. The computer program results display the percent members answering "yes" to the subject area questions. The reader can locate a specific subject area by referring to the Appendix page number as listed in Table 1. For example, the Transformers area results are given on page 6 of the GPSUM. Overall, survey incumbents indicated "high job use" of electronic principles in thirteen subject areas: Resistance (pp. 2-3), Multimeter Uses (p. 3), Alternating Current (p. 4), Capacitors and Capacitive Reactance (pp. 5-6), Filters (pp. 10-11), Coupling (p. 11), Soldering (pp. 11-12), Relays (p. 12), Microphones (p. 12), Oscilloscopes (p. 13), Power Supplies (p. 19), AM Systems (pp. 23-24), and Cable Fabrication (p. 41). "Low job use" of electronic principles was also noted in several areas. For example, principles associated with Pulse Modulation Systems (pp. 31-32), Waveguides and Cavity Resonators (pp. 35-36), Microwave Amplifiers and Oscillators (pp. 37-38), Storage Devices (p. 40), Digital to Analog Converters (p. 40), Phantastrons (p. 41), Infrared (pp. 41-42), Lasers (pp. 42-43), Display Tubes (p. 43), and Programming (pp. 43-44) were used by very few job incumbents. Additional AFSC 328X0 data can be obtained upon request to the Chief, Occupational Survey Branch (OMY).

APPENDIX

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REPORT TITLE

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

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PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS

GPSUMI PAGE 2

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TABULATION OF PERCENT MEMBERS PERFORMING TASKS BY SELECTED DAFSC AND MAJCOM
GROUPS IN THE 32800 CAREER FIELD.

REPORTS ON THE FOLLOWING GROUPS WERE REQUESTED

GROUP IDENTITY = SPC001 ALL AIRMEN WITH DAFSC 32850
GROUP IDENTITY = SPC002 ALL DAFSC 32850 IN ADC
GROUP IDENTITY = SPC003 ALL DAFSC 32850 IN ATC
GROUP IDENTITY = SPC004 ALL DAFSC 32850 IN MAC
GROUP IDENTITY = SPC005 ALL DAFSC 32850 IN SAC
GROUP IDENTITY = SPC006 ALL DAFSC 32850 IN TAC
GROUP IDENTITY = SPC007 ALL DAFSC 32850 IN USAFE

CONTAINING 1001 MEMBERS.
CONTAINING 70 MEMBERS.
CONTAINING 56 MEMBERS.
CONTAINING 217 MEMBERS.
CONTAINING 263 MEMBERS.
CONTAINING 221 MEMBERS.
CONTAINING 70 MEMBERS.

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	S.C	SPC	SPC	SPC	SPC	SPC	SPC	
	001	002	003	004	005	006	007		
1 A1-01 IN YOUR PRESENT JOB, DO YOU USE INSTRUMENTS, SUCH AS METERS OR OSCILLOSCOPES, IN WHICH IT IS NECESSARY TO	79	81	73	82	81	77	89		
2 A1-02 DO YOU USE PUBLICATIONS, SUCH AS A TECHNICAL ORDERS OR MAINTENANCE MANUALS, IN WHICH IT IS NECESSARY FOR YOU	41	39	48	45	40	41	34		MATHEMATICS
3 A1-03 DO YOU REARRANGE AND SOLVE FORMULAS OR EQUATIONS.	38	34	46	36	41	32	44		
4 A1-04 DO YOU CALCULATE THE SQUARE ROOT OF A QUANTITY.	12	6	14	15	12	11	17		
5 A1-05 DO YOU SOLVE FOR UNKNOWN QUANTITIES.	30	20	38	31	33	26	34		
6 A1-06 DO YOU CONVERT NUMBERS TO LOGARITHMS.	6	4	20	2	7	5	11		
7 A1-07 DO YOU USE LOGARITHM TABLES IN ANY TYPE OF CALCULATIONS.	6	4	18	2	8	4	14		
8 A1-08 DO YOU SOLVE QUADRATIC EQUATIONS.	7	4	14	6	7	5	9		
9 A1-09 DO YOU USE THE NATURAL SYSTEM OF LOGARITHMS.	4	1	13	1	5	3	6		
10 A1-10 DO YOU PERFORM CALCULATIONS ON VECTOR QUANTITIES.	8	4	20	7	10	5	9		
11 A1-11 DO YOU WORK WITH TRIGONOMETRIC FUNCTIONS SUCH AS SINE, COSINE, OR TANGENT.	8	4	18	7	9	5	11		
12 A1-12 DO YOU DETERMINE AREAS OF PLANE FIGURES.	4	3	5	3	4	4	4		
13 A1-13 DO YOU SOLVE OR USE SIMULTANEOUS EQUATIONS.	8	3	14	9	6	7	13		
14 A1-14 DO YOU SOLVE OR USE PROPORTIONS.	27	30	30	26	28	22	40		
15 A2-01 DO YOU USE THE TERM VOLTAGE OR VOLT (V).	97	99	96	96	98	96	100		
16 A2-02 DO YOU USE THE TERM ELECTROMOTIVE FORCE (EMF).	36	29	45	39	35	32	39		DIRECT CURRENT AND VOLTAGE
17 A2-03 DO YOU USE THE TERM OHM.	96	99	95	95	97	94	99		
18 A2-04 DO YOU USE THE TERM ION.	13	6	23	12	13	13	13		
19 A2-05 DO YOU USE THE TERM DYNE.	6	0	13	6	5	5	7		
20 A2-06 DO YOU USE THE TERM AMPERE.	90	89	95	91	89	88	91		
21 A2-07 DO YOU USE THE TERM NEUTRON.	12	4	18	14	11	14	11		
22 A2-08 DO YOU USE THE TERM COULOMB.	14	16	18	11	15	14	19		
23 A2-09 DO YOU USE THE TERM PROTON.	13	6	16	14	11	15	11		
24 A3-01 DO YOU WORK WITH RESISTORS IN YOUR PRESENT JOB.	87	94	88	86	86	86	93		
25 A3-02 DO YOU INSPECT RESISTORS.	94	97	88	92	97	93	99		
26 A3-03 DO YOU CLEAN RESISTORS.	82	84	63	82	89	77	83		
27 A3-04 DO YOU ADJUST RESISTORS.	91	96	82	87	96	88	99		RESISTANCE
28 A3-05 DO YOU CHECK OHMIC VALUE OR RESISTORS.	94	99	91	93	97	91	99		
29 A3-06 DO YOU REMOVE OR REPLACE RESISTORS.	94	99	84	92	96	92	99		
30 A3-07 DO YOU USE OR REFER TO TEMPERATURE COEFFICIENTS FOR RESISTORS ON ANY TASKS YOU PERFORM.	25	26	21	25	21	28	40		
31 A3-08 DO YOU USE OR REFER TO RESISTOR SYMBOLS SUCH AS FIXED RESISTOR SYMBOLS OR TAPED RESISTOR SYMBOLS.	93	97	89	90	95	90	99		
32 A3-09 DO YOU IDENTIFY OR CLASSIFY THE RESISTORS YOU WORK WITH AS CARBON, FIXED WIRE, SLIDE TAP, RHEOSTAT, OR	90	90	86	86	93	88	96		
33 A3-10 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE OHMIC VALUE OF RESISTANCE.	93	99	88	88	96	92	97		

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
A 34 A3-11 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE TOLERANCE.	83	91	75	75	86	82	89
A 35 A3-12 DO YOU USE RESISTOR COLOR CODES WHICH INDICATE FAILURE RATE.	28	17	14	28	30	32	31
A 36 A3-13 DO YOU MAKE DECISIONS IN WHICH YOU MUST DETERMINE HOW TWO OR MORE BATTERIES MUST BE CONNECTED TOGETHER TO REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	36	21	23	43	38	32	40
A 37 A3-14 DO YOU USE OR REFER TO THE SCHEMATIC SYMBOLS WHICH REPRESENT BATTERIES, FUSES, CONDUCTORS, LAMPS, OR SWITCHES	93	96	80	91	96	91	99
A 38 A3-15 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES RESISTIVE CIRCUITS.	52	51	55	51	58	52	51
A 39 A3-16 DO YOU CALCULATE TOTAL CURRENT FOR SERIES RESISTIVE CIRCUITS.	44	41	48	46	47	41	43
A 40 A3-17 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES RESISTIVE CIRCUITS.	48	44	50	49	54	45	44
A 41 A3-18 DO YOU CALCULATE POWER DISSIPATION FOR SERIES RESISTIVE CIRCUITS.	36	34	38	33	40	37	37
A 42 A3-19 DO YOU CALCULATE TOTAL RESISTANCE FOR SERIES PARALLEL RESISTIVE CIRCUITS.	48	51	52	46	54	48	49
A 43 A3-20 DO YOU CALCULATE TOTAL CURRENT FOR SERIES PARALLEL RESISTIVE CIRCUITS.	42	41	50	43	46	39	40
A 44 A3-21 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	45	43	50	46	52	42	40
A 45 A3-22 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR SERIES PARALLEL RESISTIVE CIRCUITS.	37	37	46	39	40	35	33
A 46 A3-23 DO YOU CALCULATE POWER DISSIPATION FOR SERIES PARALLEL RESISTIVE CIRCUITS.	34	31	38	32	38	33	34
A 47 A3-24 DO YOU CALCULATE TOTAL RESISTANCE FOR PARALLEL RESISTIVE CIRCUITS.	48	49	54	47	54	45	49
A 48 A3-25 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RESISTIVE CIRCUITS.	42	41	48	43	45	38	40
A 49 A3-26 DO YOU CALCULATE INDIVIDUAL VOLTAGE DROPS FOR PARALLEL RESISTIVE CIRCUITS.	44	40	50	47	49	40	40
A 50 A3-27 DO YOU CALCULATE INDIVIDUAL BRANCH CURRENTS FOR PARALLEL RESISTIVE CIRCUITS.	37	34	46	40	40	33	33
A 51 A3-28 DO YOU CALCULATE POWER DISSIPATION FOR PARALLEL RESISTIVE CIRCUITS.	33	31	38	33	37	31	31
B 52 B1-01 DO YOU MEASURE RESISTANCE.	98	100	95	98	99	96	100
B 53 B1-02 DO YOU REPAIR OHMMETERS.	10	11	9	8	13	8	11
B 54 B1-03 DO YOU MEASURE VOLTAGE.	98	100	95	98	99	97	100
B 55 B1-04 DO YOU REPAIR VOLTMETERS.	9	11	9	6	14	7	10
B 56 B1-05 DO YOU REPAIR AMMETERS.	7	9	5	6	10	6	6
B 57 B1-06 DO YOU MEASURE CURRENT.	61	77	80	82	79	83	84
B 58 B1-07 DO YOU USE MULTIMETERS.	97	100	95	98	98	96	100
B 59 B1-08 DO YOU DIRECTLY USE A QUANTITY OF CHARGE CALLED A COULOMB.	6	3	5	4	6	10	9
B 60 B1-09 DO YOU READ SCHEMATICS.	97	99	96	96	99	96	99

MULTIMETER USES

PC1 MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUM1 PAGE 5

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
	001	002	003	004	005	006	007		
61 82-01 DO YOU USE OR REFER TO THE TERM EFFECTIVE VOLTAGE	85	87	82	84	90	81	91		
62 82-02 DO YOU USE OR REFER TO THE TERM PEAK TO PEAK VOLTAGE.	81	87	82	82	81	79	84		ALTERNATING CURRENT
63 82-03 DO YOU USE OR REFER TO THE TERM AVERAGE VOLTAGE (DC).	80	84	71	84	84	72	86		
64 82-04 DO YOU USE OR REFER TO THE TERM WAVE LENGTH.	58	54	63	60	62	52	63		
65 82-05 DO YOU USE OR REFER TO THE TERM FREQUENCY.	93	97	86	94	94	92	94		
66 82-06 DO YOU USE OR REFER TO THE TERM INSTANTANEOUS VALUE.	25	21	29	27	28	24	27		
67 83-01 DO YOU WORK WITH INDUCTORS OR CIRCUITS CONTAINING INDUCTORS, CHOKES, OR CHOKE COILS IN YOUR PRESENT JOB.	84	87	77	80	86	81	91		
68 83-02 DO YOU INSPECT INDUCTORS.	87	93	79	82	89	87	91		
69 83-03 DO YOU CLEAN INDUCTORS.	75	79	55	75	76	74	76		
70 83-04 DO YOU ADJUST INDUCTORS.	85	89	79	79	87	85	93		
71 83-05 DO YOU REMOVE OR REPLACE INDUCTORS.	86	91	70	82	88	85	93		
72 83-06 DO YOU USE OR REFER TO INDUCTANCE.	74	80	73	69	74	75	84		
73 83-07 DO YOU USE OR REFER TO HENRIES.	53	66	57	53	53	48	64		
74 83-08 DO YOU USE OR REFER TO INDUCTIVE REACTANCE.	53	59	63	55	54	48	60		INDUCTORS AND
75 83-09 DO YOU USE OR REFER TO COPPER LOSS IN INDUCTORS.	9	4	14	8	8	9	14		INDUCTIVE REACTANCE
76 83-10 DO YOU USE OR REFER TO HYSTERESIS LOSS IN INDUCTORS.	11	6	16	11	10	9	14		
77 83-11 DO YOU USE OR REFER TO EDDY CURRENT LOSS IN INDUCTORS	10	4	14	10	11	6	13		
78 83-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTANCE IS PROPORTIONAL TO THE SQUARE OF THE NUMBER OF	11	4	20	12	10	11	20		
79 82-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE CROSS	10	6	13	8	10	10	17		
80 82-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS INVERSELY PROPORTIONAL TO ITS	11	10	14	12	11	10	16		
81 82-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE INDUCTANCE OF A COIL IS DIRECTLY PROPORTIONAL TO THE	11	9	14	9	14	9	16		
82 82-16 DO YOU CALCULATE INDUCTANCE FOR PARTICULAR INDUCTORS USING FORMULAS.	8	6	13	7	9	7	9		
83 83-17 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTANCE IN SERIES.	14	6	25	14	15	14	17		
84 83-18 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN PARALLEL.	14	7	23	14	15	14	17		
85 83-19 DO YOU CALCULATE THE TOTAL INDUCTANCE FOR INDUCTORS IN SERIES-PARALLEL CIRCUITS.	14	6	23	14	14	14	17		
86 83-20 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LAGS VOLTAGE IN AC INDUCTOR CIRCUITS.	27	24	45	26	28	24	34		
87 83-21 DO YOU CALCULATE INDUCTIVE REACTANCE.	16	10	39	18	15	12	17		
88 83-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT INDUCTIVE REACTANCE IS DIRECTLY PROPORTIONAL TO FREQUENCY.	28	29	52	24	30	25	31		
89 83-23 DO YOU WORK WITH POWER INDUCTORS.	50	54	41	49	53	44	63		
90 83-24 DO YOU WORK WITH AUDIO FREQUENCY INDUCTORS.	72	77	71	64	73	73	86		
91 83-25 DO YOU WORK WITH RADIO FREQUENCY INDUCTORS.	79	84	77	71	81	79	94		

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

GPSUMI PAGE 6

AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
C 92 C1-01 DO YOU WORK WITH CAPACITORS OR CIRCUITS CONTAINING CAPACITORS IN YOUR PRESENT JOB.	87	93	73	86	90	84	90		
C 93 C1-02 DO YOU INSPECT CAPACITORS.	91	96	79	88	96	88	96		
C 94 C1-03 DO YOU CLEAN CAPACITORS.	82	87	59	81	89	79	90		
C 95 C1-04 DO YOU ADJUST CAPACITORS.	89	96	79	86	93	86	97		
C 96 C1-05 DO YOU TEST CAPACITORS.	76	87	59	75	78	71	86		
C 97 C1-06 DO YOU DISCHARGE CAPACITORS.	72	74	61	74	75	68	86		
C 98 C1-07 DO YOU REMOVE OR REPLACE CAPACITORS.	91	96	79	90	94	88	97		CAPACITORS AND CAPACITIVE REACTANCE
C 99 C1-08 DO YOU USE OR REFER TO DISTRIBUTED CAPACITANCE.	17	17	29	14	19	14	24		
C 100 C1-09 DO YOU USE OR REFER TO ORBITAL STRESS OF ELECTRONS IN A DIELECTRIC.	4	7	7	5	3	4	7		
C 101 C1-10 DO YOU USE OR REFER TO FARADS, MICROFARADS, OR PICOFARADS.	79	87	75	75	65	73	81		
C 102 C1-11 DO YOU USE OR REFER TO CAPACITANCE.	82	90	77	76	86	80	90		
C 103 C1-12 DO YOU USE OR REFER TO DIELECTRIC CONSTANT	17	16	30	18	17	13	20		
C 104 C1-13 DO YOU USE OR REFER TO WORKING VOLTAGE RATING OF CAPACITORS	60	69	63	57	64	46	76		
C 105 C1-14 DO YOU USE OR REFER TO CAPACITIVE REACTANCE	42	43	54	41	40	38	50		
C 106 C1-15 DO YOU USE OR REFER TO CAPACITOR COLOR CODES	44	47	39	44	47	33	64		
C 107 C1-16 DO YOU WORK WITH CAPACITORS IN DC CIRCUITS	89	94	86	86	92	85	94		
C 108 C1-17 DO YOU WORK WITH CAPACITORS IN AC CIRCUITS	89	90	86	87	93	86	96		
C 109 C1-18 DO YOU WORK WITH CAPACITORS IN CIRCUITS WITH BOTH DC AND AC	85	86	80	81	89	84	94		
C 110 C1-19 DO YOU WORK WITH CAPACITORS IN DON'T REMEMBER WHICH CIRCUITS	16	16	9	16	17	12	21		
C 111 C1-20 DO YOU CALCULATE CAPACITANCE FOR PARTICULAR CAPACITORS USING FORMULAS	10	11	16	11	10	9	11		
C 112 C1-21 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS DIRECTLY PROPORTIONAL TO THE	11	10	18	11	10	9	21		
C 113 C1-22 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITANCE OF A CAPACITOR IS INVERSELY PROPORTIONAL TO	14	14	23	11	13	11	24		
C 114 C1-23 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES	21	21	36	21	23	20	19		
C 115 C1-24 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN PARALLEL	21	20	36	21	24	20	19		
C 116 C1-25 DO YOU CALCULATE THE TOTAL CAPACITANCE OF CAPACITORS IN SERIES-PARALLEL CIRCUITS	19	19	34	18	22	18	16		
C 117 C1-26 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT DOES NOT FLOW THROUGH CAPACITORS, IT ONLY APPEARS TO DO SO	34	30	41	30	34	35	46		
C 118 C1-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT LEADS VOLTAGE IN AC CAPACITOR CIRCUITS	26	23	43	23	25	24	39		
C 119 C1-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT CAPACITIVE REACTANCE IS INVERSELY PROPORTIONAL TO	26	23	46	25	27	25	30		
C 120 C1-29 DO YOU CALCULATE CAPACITIVE REACTANCE	15	10	30	15	14	15	16		

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
C 121 C1-30 DO YOU WORK WITH ROTOR-STATOR (VARIABLE) CAPACITORS	64	91	80	80	90	84	96		
C 122 C1-31 DO YOU WORK WITH COMPRESSION (TRIMMER) CAPACITORS	84	90	82	76	89	82	94		
C 123 C1-32 DO YOU WORK WITH ELECTROLYTIC (FIXED) CAPACITORS	87	91	82	84	90	84	96		
C 124 C1-33 DO YOU WORK WITH PAPER (FIXED) CAPACITORS	80	86	77	75	84	75	90		
C 125 C1-34 DO YOU WORK WITH MICA (FIXED) CAPACITORS	82	89	77	80	87	75	90		
C 126 C1-35 DO YOU WORK WITH CERAMIC (FIXED) CAPACITORS	87	90	82	84	91	83	97		
C 127 C1-36 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF CAPACITORS	15	13	11	17	13	19	13		
C 128 C2-01 DO YOU WORK WITH TRANSFORMERS IN YOUR PRESENT JOB	78	86	75	76	84	72	84		
C 129 C2-02 DO YOU INSPECT TRANSFORMERS	62	90	70	80	87	78	91		
C 130 C2-03 DO YOU CLEAN TRANSFORMERS	44	70	50	66	71	52	70		
C 131 C2-04 DO YOU ADJUST TRANSFORMERS	56	63	48	55	66	46	64		
C 132 C2-05 DO YOU TROUBLESHOOT TRANSFORMERS	74	79	63	70	78	70	89		
C 133 C2-06 DO YOU REMOVE OR REPLACE COMPLETE TRANSFORMERS	82	91	71	78	87	76	93		
C 134 C2-07 DO YOU REMOVE OR REPLACE TRANSFORMER PARTS, SUCH AS THE PRIMARY WINDING	10	11	9	11	9	10	17		
C 135 C2-08 DO YOU MAKE A DISTINCTION BETWEEN MUTUAL INDUCTANCE AND MUTUAL INDUCTANCE (M)	6	4	9	6	5	4	14		
C 136 C2-09 DO YOU USE THE SYMBOL FOR MUTUAL INDUCTANCE, M	6	4	11	6	5	5	11		
C 137 C2-10 DO YOU REFER TO OR USE THE COEFFICIENT OF COUPLING WHEN WORKING WITH TRANSFORMERS	9	9	14	8	10	9	11		
C 138 C2-11 DO YOU CALCULATE TURNS RATIOS FOR TRANSFORMERS USING CURRENT OR VOLTAGE RATIOS	12	13	21	11	10	9	23		
C 139 C2-12 DO YOU REFER TO REFLECTED IMPEDANCE WHEN WORKING WITH TRANSFORMERS	8	13	16	7	7	8	13		
C 140 C2-13 DO YOU CALCULATE IMPEDANCE INTERACTIONS FOR TRANSFORMERS	6	4	13	6	5	5	11		
C 141 C2-14 DO YOU WORK WITH AUTOTRANSFORMERS	42	37	52	42	41	37	57		
C 142 C2-15 DO YOU WORK WITH POWER TRANSFORMERS	72	81	73	70	77	63	83		
C 143 C2-16 DO YOU WORK WITH AUDIO TRANSFORMERS	74	81	73	70	79	68	87		
C 144 C2-17 DO YOU WORK WITH RADIO FREQUENCY TRANSFORMERS	70	74	70	66	76	62	90		
C 145 C2-18 DO YOU WORK WITH DON'T REMEMBER WHAT TYPE OF TRANSFORMERS	19	20	4	22	19	23	16		
C 146 C2-19 DO YOU CHECK TRANSFORMERS FOR OPEN WINDINGS BY MEASURING RESISTANCE	76	89	71	72	78	69	94		
C 147 C2-20 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING RESISTANCE	70	77	68	70	72	62	84		
C 148 C2-21 DO YOU CHECK TRANSFORMERS FOR SHORTED WINDINGS BY MEASURING OUTPUT VOLTAGES	67	79	66	62	71	60	80		
C 149 C2-22 DO YOU MEASURE RESISTANCE OF TRANSFORMER WINDINGS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN	24	27	27	25	27	20	26		
C 150 C2-23 DO YOU MEASURE OUTPUT VOLTAGE OF TRANSFORMERS TO DETERMINE WHETHER A TRANSFORMER HAS A STEP-UP OR STEP-DOWN	40	39	46	41	41	35	57		
C 151 C2-24 DO YOU REFER TO BASIC TRANSFORMER SCHEMATIC SYMBOLS FOR TRANSFORMERS	80	87	75	76	85	76	91		

TRANSFORMERS

PCT MBRS PERF TASKS- DAFSC/MAJCOM GAPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-75K

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
C 152 C2-25 DO YOU REFER TO MULTIPLE SECONDARY-WINDINGS SCHEMATIC SYMBOLS FOR TRANSFORMERS	71	79	68	47	75	68	80		
C 153 C2-26 DO YOU REFER TO MULTIPLE TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	73	83	70	69	78	69	87		
C 154 C2-27 DO YOU REFER TO CENTER TAP SCHEMATIC SYMBOLS FOR TRANSFORMERS	77	87	75	73	81	79	87		
C 155 C2-28 DO YOU REFER TO AIR CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	55	60	48	49	60	52	67		
C 156 C2-29 DO YOU REFER TO IRON CORE SCHEMATIC SYMBOLS FOR TRANSFORMERS	59	61	54	54	65	53	71		
C 157 C2-30 DO YOU REFER TO COMBINATIONS OF THE ABOVE SCHEMATIC SYMBOLS FOR TRANSFORMERS	45	79	59	61	68	57	77		
C 158 C2-31 DO YOU DETERMINE PHASE RELATIONSHIPS BETWEEN SECONDARY AND PRIMARY VOLTAGES OF TRANSFORMERS USING TRANSFORMERS YOU WORK WITH	26	29	39	24	27	27	29		
C 159 C2-32 DO YOU DETERMINE OR REFER TO THE TYPE OF CORE IN TRANSFORMERS	27	23	29	23	32	28	29		
C 160 C2-33 DO YOU REFER TO OR USE THE GENERAL RULE THAT THE TURNS RATIO OF A TRANSFORMER IS EQUAL TO THE VOLTAGE RATIO	21	27	29	21	19	19	30		
C 161 C2-34 DO YOU USE OR REFER TO STEP-UP OR STEP-DOWN RATIOS FOR TRANSFORMERS	37	39	46	33	37	34	53		
C 162 C2-35 DO YOU CALCULATE VOLTAGE RATIOS FOR TRANSFORMERS USING TURNS RATIOS	13	11	23	12	15	12	16		
C 163 C2-36 DO YOU CALCULATE CURRENT RATIOS FOR TRANSFORMERS USING TURNS RATIOS	11	10	18	10	13	8	13		
C 164 C2-37 DOES YOUR JOB INVOLVE ANY TASKS DEALING WITH THREE PHASE TRANSFORMERS	55	59	55	50	57	53	76		
C 165 C2-38 DO YOU INSPECT THREE PHASE TRANSFORMERS	52	56	39	51	55	47	73		
C 166 C2-39 DO YOU CLEAN OR LUBRICATE THREE PHASE TRANSFORMERS	30	37	20	35	33	-0	41		
C 167 C2-40 DO YOU ADJUST THREE PHASE TRANSFORMERS	18	30	13	22	15	15	23		
C 168 C2-41 DO YOU TROUBLESHOOT THREE PHASE TRANSFORMERS	48	51	39	41	53	43	70		
C 169 C2-42 DO YOU REMOVE OR REPLACE COMPLETE THREE PHASE TRANSFORMERS	50	57	41	48	56	43	73		
C 170 C2-43 DO YOU REMOVE OR REPLACE THREE PHASE TRANSFORMER PARTS SUCH AS WINDINGS	6	4	5	7	5	6	10		
C 171 C3-01 DO YOU USE OR REFER TO PERMANENT MAGNETS	39	36	39	37	34	31	26		
C 172 C3-02 DO YOU USE OR REFER TO TEMPORARY MAGNETS	31	30	32	38	30	31	26		
C 173 C3-03 DO YOU USE OR REFER TO RETENTIVITY OF MAGNETIC MATERIALS	8	1	9	9	8	10	9		
C 174 C3-04 DO YOU USE OR REFER TO RELUCTANCE OF MAGNETIC MATERIALS	4	1	11	6	6	8	7		
C 175 C3-05 DO YOU USE OR REFER TO PERMEABILITY OF MAGNETIC MATERIALS	8	3	14	8	7	9	9		
C 176 C3-06 DO YOU USE OR REFER TO RESIDUAL MAGNETISM	12	6	18	16	11	13	11		
C 177 C3-07 DO YOU USE OR REFER TO MAGNETIC LINES OF FORCE OR FLUX	17	10	30	20	15	16	19		
C 178 C3-08 DO YOU USE OR REFER TO WEBER'S THEORY OF MAGNETISM	5	1	4	4	5	5	9		

MAGNETISM

PCT MBRS PERF TASKS - DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM	5	3	5	5	5	5	9
C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION	16	11	21	19	18	12	16
C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY	11	6	20	15	10	10	10
C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR	42	37	52	45	40	40	43
MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT							
C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE	16	9	25	16	14	22	20
DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES							
C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH	14	6	27	15	10	18	16
POLE OF A CURRENT CARRYING COIL							
D 185 D1-01 DO YOU WORK WITH RCL, LR, RCL CIRCUITS IN YOUR	67	73	66	65	68	63	79
PRESENT JOB							
D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL	10	3	20	10	14	9	10
CIRCUITS							
D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN	7	4	7	8	6	7	7
WORKING WITH RCL CIRCUITS							
D 188 D1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL	8	7	16	9	10	6	10
CIRCUITS							
D 189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL	8	9	14	8	8	6	9
CIRCUITS							
D 190 D1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL	7	4	13	8	8	6	7
CIRCUITS							
D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL	57	60	59	54	58	54	76
CIRCUITS							
D 192 D1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING	24	17	32	25	28	24	27
WITH RCL CIRCUITS							
D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN	28	29	36	27	31	27	34
WORKING WITH RCL CIRCUITS							
D 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN	26	31	36	25	27	24	30
WORKING WITH RCL CIRCUITS							
D 195 D1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN	18	19	23	18	19	18	20
WORKING WITH RCL CIRCUITS							
D 196 D1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING	15	13	23	16	16	14	17
WITH RCL CIRCUITS							
D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN	57	64	59	51	57	52	74
WORKING WITH RCL CIRCUITS							
D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH	61	60	64	59	63	56	76
RCL CIRCUITS							
D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH	63	64	63	62	62	57	84
RCL CIRCUITS							
D 200 D1-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN	62	64	66	59	63	56	81
WORKING WITH RCL CIRCUITS							
D 201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN	21	16	25	21	21	20	23
WORKING WITH RCL CIRCUITS							
D 202 D1-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING	40	29	48	40	45	35	49
WITH RCL CIRCUITS							
D 203 D1-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH	23	23	34	20	26	21	29
RCL CIRCUITS							

RCL CIRCUITS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
0 209 01-20 DO YOU USE OR REFER TO TASK CIRCUITS WHEN WORKING WITH RCL CIRCUITS	62	71	63	55	61	59	84		
0 205 01-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	5	4	11	5	5	5	9		
0 206 01-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS	7	4	18	5	7	5	9		
0 207 01-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS	10	11	16	9	10	9	13		
0 208 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	5	6	13	5	5	5	7		
0 209 01-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS	10	13	21	9	10	8	14		
0 210 01-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS	5	4	11	6	6	5	7		
0 211 01-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS	6	7	14	5	7	6	9		
0 212 01-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS	8	7	18	5	9	6	11		
0 213 01-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS	6	4	16	4	8	5	10		
0 214 01-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS	9	10	21	9	9	8	9		
0 215 01-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS	5	6	11	4	5	5	7		
0 216 01-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE METHOD	6	6	16	6	5	5	7		
0 217 01-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW	10	11	23	10	10	10	13		
0 218 01-34 DO YOU CHECK CAPACITORS USING OHMMETERS	69	70	64	60	68	57	79		
0 219 01-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION	53	53	43	51	57	51	66		
0 220 01-36 DO YOU CHECK INDUCTORS USING OHMMETERS	63	69	68	61	64	57	80		
0 221 01-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION	49	49	43	49	51	47	61		
0 222 01-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\theta = \phi$, $P_F = 1$, AND $P_A = P_T$ FOR RESONANT CIRCUITS	4	4	5	4	4	3	10		
0 223 01-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS	13	14	32	12	11	14	14		
0 224 01-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT	25	27	39	20	25	22	33		
0 225 01-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT	21	19	34	17	22	20	30		
0 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE	20	16	41	19	18	19	21		
0 227 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO Q	17	20	34	17	16	14	19		
0 228 01-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE	13	13	30	10	13	9	23		

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
C 179 C3-09 DO YOU USE OR REFER TO DOMAIN THEORY OF MAGNETISM	5	3	5	5	5	5	9		
C 180 C3-10 DO YOU USE OR REFER TO MAGNETIC INDUCTION	16	11	21	19	16	12	16		
C 181 C3-11 DO YOU USE OR REFER TO FLUX DENSITY	11	6	20	15	10	10	10		
C 182 C3-12 DO YOU USE OR REFER TO THE GENERAL RULE THAT FOR	42	37	52	45	40	40	43		
MAGNETIC POLES, LIKE POLES REPEL AND UNLIKE POLES ATTRACT									
C 183 C3-13 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE	16	9	25	16	14	22	20		
DIRECTION OF MAGNETIC FIELDS ABOUT STRAIGHT WIRES									
C 184 C3-14 DO YOU USE THE LEFT HAND THUMB RULE TO FIND THE NORTH	14	6	27	15	10	18	16		
POLE OF A CURRENT CARRYING COIL									
D 185 D1-01 DO YOU WORK WITH RCL, L, RCL CIRCUITS IN YOUR	67	73	66	65	68	63	79		
PRESENT JOB									
D 186 D1-02 DO YOU USE OR REFER TO VECTORS WHEN WORKING WITH RCL	10	3	20	10	14	9	10		
CIRCUITS									
D 187 D1-03 DO YOU USE OR REFER TO PYTHAGOREAN THEOREM WHEN	7	4	7	8	6	7	7		
WORKING WITH RCL CIRCUITS									
D 188 D1-04 DO YOU USE OR REFER TO SINE WHEN WORKING WITH RCL	8	7	16	9	10	6	10		
CIRCUITS									
D 189 D1-05 DO YOU USE OR REFER TO COSINE WHEN WORKING WITH RCL	8	9	14	8	8	6	9		
CIRCUITS									
D 190 D1-06 DO YOU USE OR REFER TO TANGENT WHEN WORKING WITH RCL	7	4	13	8	8	6	7		
CIRCUITS									
D 191 D1-07 DO YOU USE OR REFER TO WATTS WHEN WORKING WITH RCL	57	60	54	54	58	54	76		
CIRCUITS									
D 192 D1-08 DO YOU USE OR REFER TO TRUE POWER (PT) WHEN WORKING	24	17	32	25	28	24	27		
WITH RCL CIRCUITS									
D 193 D1-09 DO YOU USE OR REFER TO MAXIMUM POWER (PM) WHEN	28	29	36	27	31	27	34		
WORKING WITH RCL CIRCUITS									
D 194 D1-10 DO YOU USE OR REFER TO AVERAGE POWER (PAVE) WHEN	26	31	36	25	27	24	30		
WORKING WITH RCL CIRCUITS									
D 195 D1-11 DO YOU USE OR REFER TO APPARENT POWER (PA) WHEN	18	19	23	18	19	18	20		
WORKING WITH RCL CIRCUITS									
D 196 D1-12 DO YOU USE OR REFER TO POWER FACTOR (PF) WHEN WORKING	15	13	23	16	16	14	17		
WITH RCL CIRCUITS									
D 197 D1-13 DO YOU USE OR REFER TO RESONANT CIRCUITS WHEN	57	64	59	51	57	52	74		
WORKING WITH RCL CIRCUITS									
D 198 D1-14 DO YOU USE OR REFER TO BANDWIDTH WHEN WORKING WITH	61	60	64	59	63	56	76		
RCL CIRCUITS									
D 199 D1-15 DO YOU USE OR REFER TO SELECTIVITY WHEN WORKING WITH	63	64	63	62	62	57	84		
RCL CIRCUITS									
D 200 D1-16 DO YOU USE OR REFER TO RESONANT FREQUENCY WHEN	62	64	66	59	63	56	81		
WORKING WITH RCL CIRCUITS									
D 201 D1-17 DO YOU USE OR REFER TO HALF POWER POINTS WHEN	21	16	25	21	21	20	23		
WORKING WITH RCL CIRCUITS									
D 202 D1-18 DO YOU USE OR REFER TO BANDPASS REGION WHEN WORKING	40	29	48	40	45	35	49		
WITH RCL CIRCUITS									
D 203 D1-19 DO YOU USE OR REFER TO CIRCUIT Q WHEN WORKING WITH	23	23	34	20	26	21	29		
RCL CIRCUITS									

RCL CIRCUITS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DT-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
0 204 01-20 DO YOU USE OR REFER TO TASK CIRCUITS WHEN WORKING WITH RCL CIRCUITS	62	71	63	55	61	59	84		
0 205 01-21 DO YOU DETERMINE VALUES OF TRIGONOMETRIC FUNCTIONS USING FORMULAS	5	4	11	5	5	5	9		
0 206 01-22 DO YOU DRAW VOLTAGE, CURRENT, OR IMPEDANCE VECTOR DIAGRAMS FOR CIRCUITS	7	4	18	5	7	5	9		
0 207 01-23 DO YOU CALCULATE TOTAL IMPEDANCE FOR CAPACITIVE CIRCUITS	10	11	16	9	10	9	13		
0 208 01-24 DO YOU CALCULATE PHASE ANGLES BETWEEN IMPEDANCE AND RESISTANCE IN CAPACITIVE CIRCUITS	5	6	13	5	5	5	7		
0 209 01-25 DO YOU CALCULATE TOTAL IMPEDANCE FOR SERIES RCL CIRCUITS	10	13	21	9	10	8	14		
0 210 01-26 DO YOU CALCULATE IMPEDANCE ANGLES FOR SERIES RCL CIRCUITS	5	4	11	6	6	5	7		
0 211 01-27 DO YOU CALCULATE APPARENT POWER (PA) FOR SERIES RCL CIRCUITS	6	7	14	5	7	6	9		
0 212 01-28 DO YOU CALCULATE TRUE POWER (PT) FOR SERIES RCL CIRCUITS	8	7	18	5	9	6	11		
0 213 01-29 DO YOU CALCULATE POWER FACTORS (PF) FOR SERIES RCL CIRCUITS	6	4	16	4	8	5	10		
0 214 01-30 DO YOU CALCULATE TOTAL CURRENT FOR PARALLEL RCL CIRCUITS	9	10	21	9	9	8	9		
0 215 01-31 DO YOU CALCULATE IMPEDANCE ANGLES FOR PARALLEL RCL CIRCUITS	5	6	11	4	5	5	7		
0 216 01-32 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING THE ASSUMED VOLTAGE METHOD	6	6	16	6	5	5	7		
0 217 01-33 DO YOU CALCULATE TOTAL IMPEDANCE FOR PARALLEL RCL CIRCUITS USING OHM'S LAW	10	11	23	10	10	10	13		
0 218 01-34 DO YOU CHECK CAPACITORS USING OHMMETERS	64	70	64	60	68	57	79		
0 219 01-35 DO YOU CHECK CAPACITORS USING SUBSTITUTION	53	53	43	51	57	51	66		
0 220 01-36 DO YOU CHECK INDUCTORS USING OHMMETERS	63	67	68	61	64	57	80		
0 221 01-37 DO YOU CHECK INDUCTORS USING SUBSTITUTION	49	49	43	49	51	47	61		
0 222 01-38 DO YOU USE OR REFER TO THE GENERAL RULE THAT $\tan \theta = \frac{Q}{P}$ AND $P = \frac{P}{Q}$ FOR RESONANT CIRCUITS	4	4	5	4	4	3	10		
0 223 01-39 DO YOU CALCULATE RESONANT FREQUENCIES FOR RCL CIRCUITS	13	14	32	12	11	14	14		
0 224 01-40 DO YOU USE OR REFER TO THE GENERAL RULE THAT IMPEDANCE IS MINIMUM AND CURRENT MAXIMUM AT THE RESONANT	25	27	39	20	25	22	33		
0 225 01-41 DO YOU USE OR REFER TO THE GENERAL RULE THAT LINE CURRENT IS MINIMUM AND IMPEDANCE MAXIMUM AT RESONANT	21	19	34	17	22	20	30		
0 226 01-42 DO YOU USE OR REFER TO THE GENERAL RULE THAT HALF POWER POINTS ARE AT 70.7 PERCENT OF THE PEAK CURRENT VALUE	20	16	41	19	18	19	21		
0 227 01-43 DO YOU USE OR REFER TO THE GENERAL RULE THAT BANDWIDTH IS INVERSELY PROPORTIONAL TO Q	17	20	34	17	16	14	19		
0 228 01-44 DO YOU DETERMINE HOW CHANGES IN FREQUENCY, RESISTANCE, CAPACITANCE, OR INDUCTANCE WILL AFFECT CURRENT OR PHASE	13	13	30	10	13	9	23		

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

		DY-TSK											
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC		
		001	002	003	004	005	006	007					
D 229	D2-U1 IN YOUR PRESENT JOB, DO YOU WORK WITH, USE, OR REFER TO SERIES OR PARALLEL RESONANT CIRCUITS OR TIME CONSTANTS	33	26	45	32	32	31	43					
D 230	D2-U2 DO YOU WORK WITH, USE, OR REFER TO TIME CONSTANTS	18	10	29	17	17	19	27					
D 231	D2-U3 DO YOU WORK WITH, USE, OR REFER TO AVAILABLE VOLTAGE	14	11	18	13	13	16	19					
D 232	D3-U4 DO YOU WORK WITH, USE, OR REFER TO TRANSIENT INTERVALS	10	6	20	9	11	11	11					
D 233	D2-U5 DO YOU USE OR REFER TO THE GENERAL RULE THAT A CAPACITOR IS FULLY CHARGED (OR DISCHARGED) AFTER FIVE (5) TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO DETERMINE THE	13	7	25	13	12	10	17					
D 234	D2-U6 DO YOU USE OR REFER TO UNIVERSAL TIME CONSTANT CHARTS	5	4	11	5	5	4	7					
D 235	D2-U7 DO YOU USE OR REFER TO FORMULAS TO DETERMINE CIRCUIT CURRENT OR COMPONENT VOLTAGES AFTER A SPECIFIC	5	6	11	5	4	5	10					
D 236	D2-U8 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE THE TIME REQUIRED FOR CIRCUIT CURRENT OR COMPONENT VOLTAGES TO	5	4	11	5	3	5	7					
D 237	D2-U9 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE COMPONENT VALUES REQUIRED FOR CIRCUIT CURRENT AND	5	4	11	4	5	5	7					
D 238	D2-U10 DO YOU USE OR REFER TO THE GENERAL RULE THAT CURRENT IN LR CIRCUITS REACHES ITS MINIMUM VALUE (OR ZERO) AFTER	8	6	11	6	7	7	13					
D 239	D3-U1 DO YOU WORK WITH CIRCUITS USED AS FILTERS IN YOUR PRESENT JOB	80	69	79	72	83	75	93					
D 240	D3-U2 DO YOU INSPECT FILTER CIRCUITS	79	61	71	74	82	76	91					
D 241	D3-U3 DO YOU CLEAN FILTER CIRCUITS	63	73	46	62	68	55	71					
D 242	D3-U4 DO YOU ALIGN OR ADJUST FILTER CIRCUITS	62	73	71	61	65	52	71					
D 243	D3-U5 DO YOU TROUBLESHOOT TO THE FILTER CIRCUIT LEVEL	72	77	68	65	74	71	90					
D 244	D3-U6 DO YOU TROUBLESHOOT TO COMPONENT PARTS	65	67	59	61	68	63	77					
D 245	D3-U7 DO YOU REMOVE OR REPLACE THE COMPLETE FILTER CIRCUIT	77	84	70	72	79	74	89					
D 246	D3-U8 DO YOU REMOVE OR REPLACE FILTER CIRCUIT COMPONENT PARTS	62	66	43	56	64	63	80					
D 247	D3-U9 DO YOU WORK WITH LOW PASS FILTERS	75	79	68	70	80	71	86					
D 248	D3-U10 DO YOU WORK WITH HIGH PASS FILTERS	71	71	68	70	75	64	83					
D 249	D3-U11 DO YOU WORK WITH BANDPASS FILTERS	76	80	68	73	80	71	87					
D 250	D3-U12 DO YOU WORK WITH BAND-REJECT FILTERS	58	54	59	59	60	49	70					
D 251	D3-U13 DON'T REMEMBER WHICH TYPE OF FILTER YOU WORK WITH	18	19	11	14	22	18	19					
D 252	D3-U14 DO YOU WORK WITH L-SECTION FILTER CONFIGURATION	41	41	45	40	42	36	56					
D 253	D3-U15 DO YOU WORK WITH T-SECTION FILTER CONFIGURATION	41	41	41	39	43	37	54					
D 254	D3-U16 DO YOU WORK WITH PI-SECTION FILTER CONFIGURATION	37	37	38	39	39	33	54					
D 255	D3-U17 DON'T REMEMBER WHICH TYPE FILTER CONFIGURATION	36	43	23	28	39	38	33					
D 256	D3-U18 DO THE FILTERS YOU WORK WITH USE PARALLEL RESONANT CIRCUITS	48	53	54	43	52	41	61					
D 257	D3-U19 DO THE FILTERS YOU WORK WITH USE SERIES-PARALLEL CIRCUITS	48	49	54	43	51	42	64					
D 258	D3-U20 DO THE FILTERS YOU WORK WITH USE SERIES RESONANT CIRCUITS	47	50	54	44	51	39	59					

SERIES AND
PARALLEL RESONANCE
(TIME CONSTANTS)

FILTERS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
D 259 D3-21 DON'T REMEMBER WHICH TYPE OF BASIC CIRCUIT	33	33	21	27	37	38	29		
D 260 D3-22 DO YOU USE EQUATIONS OR FORMULAS TO DETERMINE	8	4	11	7	8	9	10		
CAPACITANCE OR INDUCTANCE VALUES REQUIRED FOR SPECIFIC									
E 261 E1-01 DO YOU WORK WITH COUPLING DEVICES IN YOUR PRESENT JOB	73	71	68	69	79	69	84		
E 262 E1-02 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO	64	63	66	62	66	57	76		
THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH RC									
E 263 E1-03 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO	64	60	59	65	68	59	71		
THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH									
E 264 E1-04 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO	66	63	68	62	69	61	80		
THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH									
E 265 E1-05 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	63	63	70	61	66	57	76		
WHICH PERFORM RC COUPLING									
E 266 E1-06 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	63	63	61	63	67	57	73		
WHICH PERFORM IMPEDANCE COUPLING									
E 267 E1-07 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS	66	67	68	60	69	61	77		
WHICH PERFORM TRANSFORMER COUPLING									
E 268 E1-08 DO YOU WORK WITH DIRECTLY COUPLED CIRCUITS	61	61	63	55	67	56	71		
E 269 E1-09 DO YOU WORK WITH CAPACITIVE-RESISTIVE COUPLED	60	60	66	54	65	53	73		
CIRCUITS									
E 270 E1-10 DO YOU WORK WITH CAPACITIVE-INDUCTIVE COUPLED	58	57	59	53	65	52	71		
CIRCUITS									
E 271 E1-11 DO YOU WORK WITH TRANSFORMER COUPLED CIRCUITS	62	59	66	56	66	57	77		
E 272 E1-12 DON'T REMEMBER WHICH TYPE OF COUPLING CIRCUITS	19	17	9	22	17	20	13		
E 273 E2-01 IN YOUR PRESENT JOB, DO YOU PERFORM SOLDERING	93	97	86	94	95	89	97		
TECHNIQUES OR INSPECT OR EVALUATE SOLDERED CONNECTIONS									
E 274 E2-02 DO YOU SELECT TYPE OF SOLDER TO USE	74	76	70	71	73	78	69		
E 275 E2-03 DO YOU ADD FLUX TO CONNECTIONS	89	91	73	88	91	90	94		
E 276 E2-04 DO YOU CLEAN CONNECTIONS USING SOLVENTS	76	76	68	72	76	79	84		
E 277 E2-05 DO YOU STRIP INSULATION FROM WIRES	95	96	86	95	96	95	100		
E 278 E2-06 DO YOU CONNECT OR DISCONNECT HEAT SINKS	89	94	80	87	90	89	100		
E 279 E2-07 DO YOU BEND OR SHAPE WIRES OR LEADS	95	97	84	95	97	94	100		
E 280 E2-08 DO YOU CUT WIRES	95	97	86	95	97	95	100		
E 281 E2-09 DO YOU FILE OR SHAPE SOLDERING IRON TIPS	80	83	71	79	83	76	86		
E 282 E2-10 DO YOU TIN SOLDERING IRON TIPS	95	97	82	94	96	95	99		
E 283 E2-11 DO YOU CLEAN SOLDERING IRON TIPS	94	96	84	94	97	93	99		
E 284 E2-12 DO YOU CLEAN ELECTRICAL SURFACES USING ERASERS	86	91	70	84	87	87	89		
E 285 E2-13 DO YOU TIN OR PRE-TIN CONDUCTORS	94	94	86	94	95	92	100		
E 286 E2-14 DO YOU INSPECT SOLDERED CONNECTIONS	95	96	84	95	97	94	100		
E 287 E2-15 DO YOU DESOLDER CONNECTIONS BY NICKING	66	71	61	82	69	64	87		
E 288 E2-16 DO YOU DESOLDER CONNECTIONS USING VACUUM DESOLDERING	86	94	59	82	90	86	96		
TOOLS									
E 289 E2-17 DO YOU CUT COMPONENT LEADS TO REMOVE COMPONENTS	77	83	77	76	83	73	77		
E 290 E2-18 DO YOU CRUSH COMPONENTS FOR REMOVAL	34	30	21	29	41	36	41		

SOLDERING

COUPLING

PCT MBRS PERF TASKS- DAFSC/MAJCOM GBPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
E 291 E2-19 DO YOU MAKE HARDWARE CONNECTIONS	89	90	79	89	94	89	89		
E 292 E2-20 DO YOU MAKE PRINTED CIRCUIT BOARD CONNECTIONS	85	91	75	83	90	80	94		
E 293 E2-21 DO YOU SOLDER PASSIVE COMPONENTS SUCH AS RESISTORS OR CAPACITORS ON PRINTED CIRCUIT BOARDS	85	91	77	83	90	81	96		
E 294 E2-22 DO YOU SOLDER ACTIVE COMPONENTS SUCH AS SOLID-STATE DIODES OR TRANSISTORS ON PRINTED CIRCUIT BOARDS	83	89	73	80	87	79	94		
E 295 E3-01 DO YOU WORK WITH RELAYS ON YOUR PRESENT JOB	91	97	89	88	94	91	96		
E 296 E3-02 DO YOU ADJUST RELAYS	48	44	43	50	50	43	64		
E 297 E3-03 DO YOU CLEAN RELAYS	74	81	63	74	72	70	84		
E 298 E3-04 DO YOU INSPECT RELAYS	87	93	80	82	89	87	91		
E 299 E3-05 DO YOU REMOVE OR REPLACE COMPLETE RELAYS	91	97	82	88	94	90	97		
E 300 E3-06 DO YOU REMOVE OR REPLACE PARTS OR RELAYS	26	19	32	26	23	27	37		
E 301 E3-07 DO YOU TROUBLESHOOT RELAYS	88	91	86	83	90	86	96		
E 302 E3-08 DO YOU STRAIGHTEN RELAY CONTACTS	67	69	68	67	66	63	81		
E 303 E3-09 DO YOU PERFORM TASKS ON RELAY CONTACTS	65	77	61	69	56	63	77		
E 304 E3-10 DO YOU PERFORM TASKS ON RELAY COILS	14	14	16	12	14	11	23		
E 305 E3-11 DO YOU PERFORM TASKS ON RELAY COILS	18	23	25	16	16	15	31		
E 306 E3-12 DO YOU PERFORM TASKS ON RELAY ARMATURES	26	31	29	23	21	26	34		
E 307 E3-13 DO YOU PERFORM TASKS ON RELAY SPRINGS	33	33	30	35	27	31	41		
E 308 E3-14 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY OPEN (NO) SCHEMATIC SYMBOLS FOR RELAYS	76	87	64	74	81	72	87		
E 309 E3-15 DO YOU USE OR REFER TO SINGLE POLE, SINGLE THROW (SPST), NORMALLY CLOSED (NC) SCHEMATIC SYMBOLS FOR RELAYS	75	87	63	73	79	70	83		
E 310 E3-16 DO YOU USE OR REFER TO SINGLE POLE, DOUBLE THROW (SPDT) SCHEMATIC SYMBOLS FOR RELAYS	74	86	63	72	78	68	83		
E 311 E3-17 DO YOU USE OR REFER TO DOUBLE POLE, DOUBLE THROW (DPDT) SCHEMATIC SYMBOLS FOR RELAYS	73	86	66	71	78	69	81		
E 312 E3-18 DO YOU USE OR REFER TO OTHER RELAY SYMBOLS SCHEMATIC SYMBOLS FOR RELAYS	68	79	57	65	70	63	77		
E 313 E3-19 DO YOU CHECK ELECTRICAL CONTINUITY OF COILS BY MEASURING RESISTANCE	75	83	70	68	79	73	81		
F 314 F1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH MICROPHONES	88	94	75	92	85	88	94		
F 315 F1-02 DO YOU INSPECT MICROPHONES	83	86	59	89	81	82	90		
F 316 F1-03 DO YOU CLEAN MICROPHONES	63	73	43	74	61	57	63		
F 317 F1-04 DO YOU OPERATE MICROPHONES	89	94	73	93	86	90	96		
F 318 F1-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT	72	79	57	77	68	71	81		
F 319 F1-06 DO YOU TROUBLESHOOT DOWN TO MICROPHONE PARTS	38	39	21	37	39	39	36		
F 320 F1-07 DO YOU REMOVE OR REPLACE COMPLETE MICROPHONE PARTS	87	94	61	93	83	86	93		
F 321 F1-08 DO YOU REMOVE OR REPLACE MICROPHONE PARTS	36	33	21	36	39	36	37		
F 322 F1-09 DO YOU PERFORM TASKS ON CARBON MICROPHONES	78	80	66	83	77	76	77		
F 323 F1-10 DO YOU PERFORM TASKS ON CAPACITOR MICROPHONES	12	14	13	13	13	11	14		
F 324 F1-11 DO YOU PERFORM TASKS ON CRYSTAL MICROPHONES	13	13	9	12	17	13	14		
F 325 F1-12 DO YOU PERFORM TASKS ON DYNAMIC MICROPHONES	78	84	64	82	78	73	84		
F 326 F1-13 DO YOU PERFORM TASKS ON VELOCITY RIBBON MICROPHONES	5	6	2	6	3	6	9		

RELAYS

MICROPHONES

PCT NRBS PERF TASKS- DAFSC/MAJCOM GRNS

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
F 327 F2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH SPEAKERS	79	74	66	87	81	74	81
F 328 F2-02 DO YOU INSPECT SPEAKERS	75	70	57	84	78	67	80
F 329 F2-03 DO YOU CLEAN SPEAKERS	54	51	43	69	56	43	54
F 330 F2-04 DO YOU OPERATE SPEAKERS	79	76	66	88	81	75	86
F 331 F2-05 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS BUT DO NOT TROUBLESHOOT DOWN TO COMPONENT	70	74	59	76	72	61	74
F 332 F2-06 DO YOU TROUBLESHOOT DOWN TO SPEAKER PARTS	23	16	7	21	27	25	23
F 333 F2-07 DO YOU REMOVE OR REPLACE COMPLETE SPEAKERS	76	74	59	86	79	67	83
F 334 F2-08 DO YOU REMOVE OR REPLACE SPEAKER PARTS	18	10	7	16	23	18	16
F 335 F2-09 DO YOU PERFORM ANY TASKS ON SPEAKER CONES	9	9	2	10	9	12	13
F 336 F2-10 DO YOU PERFORM ANY TASKS ON SPEAKER SPIDERS	3	1	0	3	3	5	7
F 337 F2-11 DO YOU PERFORM ANY TASKS ON SPEAKER FIELD COILS	6	1	0	7	8	9	9
F 338 F2-12 DO YOU PERFORM ANY TASKS ON SPEAKER VOICE COILS	7	4	0	8	8	9	9
F 339 F2-13 DO YOU PERFORM ANY TASKS ON SPEAKER PERMANENT MAGNETS	7	4	2	7	6	10	13
F 340 F2-14 DO YOU PERFORM ANY TASKS ON SPEAKER ELECTROMAGNETS	7	1	2	7	7	7	13
F 341 F2-15 DO YOU PERFORM ANY TASKS ON SPEAKER SOFT IRON CORES	5	1	0	5	5	5	9
F 342 F3-01 DO YOU USE OSCILLOSCOPES IN YOUR PRESENT JOB	84	94	75	81	79	86	96
F 343 F3-02 DO YOU USE OSCILLOSCOPES TO PERFORM OPERATIONAL CHECKS	79	89	75	76	75	81	91
F 344 F3-03 DO YOU USE OSCILLOSCOPES TO PERFORM ALIGNMENTS OR ADJUSTMENTS	79	91	77	75	76	82	91
F 345 F3-04 DO YOU USE OSCILLOSCOPES TO TROUBLESHOOT ELECTRONIC CIRCUITS	75	89	70	75	72	76	83
F 346 F3-05 DO YOU USE OSCILLOSCOPES TO MEASURE FREQUENCY	53	64	55	59	51	48	60
F 347 F3-06 DO YOU USE OSCILLOSCOPES TO MEASURE TIME	35	30	38	39	39	30	37
F 348 F3-07 DO YOU USE OSCILLOSCOPES TO OBSERVE LISAIOUS PATTERNS	44	27	36	37	67	33	51
F 349 F3-08 DO YOU USE OSCILLOSCOPES TO OBSERVE SIGNALS WHILE UTILIZING ATTENUATOR PROBES	70	83	66	71	62	74	81
F 350 F3-09 DO YOU USE OSCILLOSCOPES TO MAKE FREQUENCY OR TIME MEASUREMENTS USING DELAY TIME MULTIPLIERS	25	24	27	28	25	26	27
F 351 F3-10 DO YOU USE OSCILLOSCOPES TO MEASURE AC VOLTAGE	65	79	63	69	63	61	70
F 352 F3-11 DO YOU USE OSCILLOSCOPES TO MEASURE OR OBSERVE SIGNALS AFTER FIRST ADJUSTING THE GAIN AND DC BAL CONTROLS	52	56	55	59	46	52	56
F 353 F3-12 DO YOU USE OSCILLOSCOPES TO MEASURE DC VOLTAGE	56	70	54	64	57	50	61
F 354 G1-01 DO YOU WORK WITH SEMICONDUCTOR DIODES IN YOUR PRESENT JOB	83	89	77	80	84	82	96
G 355 G1-02 DO YOU INSPECT DIODES	83	84	71	81	84	84	96
G 356 G1-03 DO YOU REMOVE OR REPLACE DIODES	83	87	71	82	84	83	97
G 357 G1-04 DO YOU CHECK DIODES USING AN INSTRUMENT	78	83	75	76	76	78	90
G 358 G1-05 DO YOU USE ENERGY LEVEL DIAGRAMS IN YOUR WORK WITH DIODES	4	1	9	5	4	5	7
G 359 G1-06 DO YOU USE PN JUNCTION DIODE CHARACTERISTIC CURVES, TOGETHER WITH VALUES OF FORWARD AND REVERSE BIAS VOLTAGE, TO COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES	9	7	16	10	8	8	16
G 360 G1-07 DO YOU COMPUTE FORWARD OR REVERSE BIAS RESISTANCE FOR DIODES	16	16	18	18	16	11	21

OSCILLOSCOPES

SEMICONDUCTOR
DIODES

SPEAKERS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
6 361 G1-08 DO YOU USE OR REFER TO THE GENERAL RULE THAT	50	53	45	46	52	47	71		
6 362 G1-09 DO YOU IDENTIFY SEMICONDUCTOR DIODES AS OPPOSED TO	70	73	59	68	71	67	87		
6 363 G1-10 DO YOU REFER TO OR DO YOU DETERMINE THE GENERAL	10	10	18	8	9	13	10		
6 364 G1-11 DO YOU USE OR REFER TO MEASUREMENTS OF FORWARD BIAS	54	59	46	53	55	51	64		
6 365 G1-12 DO YOU USE OR REFER TO DIODE COLOR CODING	33	27	16	38	38	24	46		
6 366 G1-13 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN	2	0	0	2	3	2	4		
6 367 G1-14 DO YOU USE OR REFER TO CENTRIFUGAL FORCE OF AN	2	0	0	2	2	2	4		
6 368 G1-15 DO YOU USE OR REFER TO DIODE NUMBERING SYSTEM, SUCH	60	63	54	59	62	59	76		
6 369 G1-16 DO YOU USE OR REFER TO KINETIC ENERGY OF AN ELECTRON	3	0	0	3	3	2	7		
6 370 G1-17 DO YOU USE OR REFER TO POTENTIAL ENERGY OF AN	3	0	2	3	3	2	7		
6 371 G1-18 DO YOU USE OR REFER TO MEASUREMENTS OF REVERSE BIAS	51	60	46	50	53	45	64		
6 372 G1-19 DO YOU USE OR REFER TO NUMBER OF ELECTRONS IN A	4	0	9	5	3	2	9		
6 373 G1-20 DO YOU USE OR REFER TO PERMISSIBLE ENERGY LEVELS OF	3	0	7	3	3	3	6		
6 374 G1-21 DO YOU USE OR REFER TO FORBIDDEN ENERGY LEVELS OF AN	3	0	5	3	3	3	6		
6 375 G1-22 DO YOU USE OR REFER TO VALENCE ELECTRONS (THOSE IN	4	0	7	5	4	3	7		
6 376 G1-23 DO YOU USE OR REFER TO ATOMIC NUMBER (TOTAL NUMBER OF	4	0	7	5	4	2	6		
6 377 G1-24 DO YOU USE OR REFER TO SYMBOLS ON THE DIODE WHICH	71	76	64	65	70	71	86		
6 378 G1-25 DO YOU NEED TO KNOW WHICH MATERIALS ARE USED IN THE	16	20	18	18	17	11	19		
6 379 G1-26 DO YOU NEED TO KNOW THAT SEMICONDUCTORS HAVE NEGATIVE	28	29	29	27	27	27	37		
6 380 G1-27 DO YOU USE OR REFER TO PN JUNCTION DIODE	10	6	14	9	10	10	13		
6 381 G1-28 DO YOU DETERMINE WHETHER PN JUNCTION DIODES ARE	50	54	46	49	48	46	69		
6 382 G1-29 DO YOU USE OR REFER TO VALENCE BAND IN SEMICONDUCTOR	4	0	13	6	3	3	6		

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
6 383 61-30 DO YOU USE OR REFER TO FORBIDDEN BAND IN SEMICONDUCTOR MATERIALS	3	0	9	5	2	2	6	
6 384 61-31 DO YOU USE OR REFER TO CONDUCTION BAND IN SEMICONDUCTOR MATERIALS	4	0	9	6	3	4	7	
6 385 61-32 DO YOU USE OR REFER TO COVALENT BONDING IN SEMICONDUCTOR MATERIALS	4	0	11	6	3	3	6	
6 386 61-33 DO YOU USE OR REFER TO ELECTRON-HOLE PAIR CREATED IN SEMICONDUCTORS	5	4	14	4	3	5	7	
6 387 61-34 DO YOU USE OR REFER TO ELECTRON FLOW OR HOLE FLOW IN SEMICONDUCTORS	13	13	16	9	11	14	19	
6 388 61-35 DO YOU USE OR REFER TO DONOR IMPURITY IN SEMICONDUCTORS	5	3	14	7	4	2	9	
6 389 61-36 DO YOU USE OR REFER TO ACCEPTOR IMPURITY IN SEMICONDUCTORS	5	3	16	5	4	3	9	
6 390 61-37 DO YOU USE OR REFER TO P-TYPE SEMICONDUCTOR MATERIAL	23	21	29	23	23	24	23	
6 391 61-38 DO YOU USE OR REFER TO N-TYPE SEMICONDUCTOR MATERIAL	23	24	27	22	22	24	23	
6 392 61-39 DO YOU USE OR REFER TO MAJORITY CARRIERS IN SEMICONDUCTORS	6	3	16	7	5	6	7	
6 393 61-40 DO YOU USE OR REFER TO MINORITY CARRIERS IN SEMICONDUCTORS	6	3	16	7	5	5	7	
6 394 61-41 DO YOU USE OR REFER TO JUNCTION RECOMBINATION IN SEMICONDUCTORS	5	3	13	7	3	3	7	
6 395 61-42 DO YOU USE OR REFER TO DEPLETION REGION IN SEMICONDUCTORS	9	6	18	11	7	7	10	
6 396 61-43 DO YOU USE OR REFER TO RELATIONSHIP BETWEEN BARRIER WIDTH AND DIFFERENCE OF POTENTIAL	7	6	14	9	6	5	6	
6 397 61-44 DO YOU USE OR REFER TO THE 10:1 BACK TO FRONT RESISTANCE RATIO FOR DIODES	54	59	45	53	58	47	73	
6 398 61-45 DO YOU USE OR REFER TO BARRIER HEIGHT IN SEMICONDUCTORS	4	3	7	5	2	3	7	
6 399 61-46 DO YOU USE OR REFER TO DIODE SUBSTITUTION INFORMATION	36	47	30	40	38	31	37	
6 400 61-47 DO YOU USE OR REFER TO MAXIMUM AVERAGE FORWARD CURRENT DIODE RATINGS	15	16	20	15	17	12	20	
6 401 61-48 DO YOU USE OR REFER TO PEAK RECURRENT FORWARD CURRENT DIODE RATINGS	13	16	16	14	14	10	19	
6 402 61-49 DO YOU USE OR REFER TO MAXIMUM SURGE CURRENT DIODE RATINGS	15	19	16	14	17	12	20	
6 403 61-50 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE DIODE RATINGS	19	23	23	18	22	16	20	
6 404 62-01 DO YOU WORK WITH TRANSISTORS IN YOUR PRESENT JOB.	83	91	82	82	82	83	94	
6 405 62-02 DO YOU INSPECT TRANSISTORS	83	90	75	82	83	83	91	
6 406 62-03 DO YOU REMOVE OR REPLACE TRANSISTORS	84	91	73	83	84	84	94	
6 407 62-04 DO YOU CHECK TRANSISTORS USING AN INSTRUMENT	76	87	79	73	76	73	86	
6 408 62-05 DO YOU USE OR REFER TO EMITTER - BASE (EB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	71	81	75	69	70	67	86	TRANSISTORS
6 409 62-06 DO YOU USE OR REFER TO COLLECTOR - BASE (CB) FORWARD AND REVERSE RESISTANCE MEASUREMENTS	70	81	77	67	70	65	86	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

BY-TSK

[illegible]

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007
6 437 63-10 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN COLLECTOR VOLTAGE WHICH RESULTS FROM A CHANGE IN BASE	21	19	29	18	21	29	19
6 438 63-11 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	0	4	14	5	9	11	9
6 439 63-12 DO YOU USE OR REFER TO (COMMON EMITTER) THE CHANGE IN BASE CURRENT WHICH RESULTS FROM AN INPUT SIGNAL	19	16	30	15	19	22	16
6 440 63-13 DO YOU USE OR REFER TO (COMMON EMITTER) THE CALCULATIONS NECESSARY TO MEASURE THE SPECIFIC CHANGE IN	9	4	20	6	10	10	6
6 441 63-14 DO YOU USE THE LOAD-LINE METHOD OF ANALYSIS IN YOUR CIRCUIT ANALYSIS (THIS METHOD REQUIRES YOU TO PLOT A	4	1	7	4	3	4	6
6 442 63-15 DO YOU USE OR REFER TO THE OPERATING POINT Q (QUIESCENT POINT) FOR A TRANSISTOR	9	10	20	6	9	11	11
6 443 63-16 DO YOU CALCULATE THE SPECIFIC QUIESCENT POINT FOR A PARTICULAR TRANSISTOR	3	1	5	3	3	4	7
6 444 63-17 DO YOU MEASURE VOLTAGE GAIN USED IN THE COMMON EMITTER CONFIGURATION	38	36	34	36	40	37	49
6 445 63-18 DO YOU MEASURE CURRENT GAIN USED IN THE COMMON EMITTER CONFIGURATION	25	27	29	28	25	23	24
6 446 63-19 DO YOU MEASURE POWER GAIN USED IN THE COMMON EMITTER CONFIGURATION	29	30	25	30	29	29	30
6 447 63-20 DO YOU CALCULATE THE VOLTAGE GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE CHANGE	4	3	4	3	4	4	7
6 448 63-21 DO YOU CALCULATE THE CURRENT GAIN FOR SPECIFIC TRANSISTORS USING A FORMULA THAT IS, DO YOU DIVIDE THE	4	3	5	3	5	3	7
6 449 63-22 DO YOU CALCULATE THE POWER GAIN FOR A SPECIFIC TRANSISTOR USING A FORMULA THAT IS, DO YOU MULTIPLY THE	4	3	4	3	4	4	6
6 450 63-23 DO YOU NEED TO KNOW THAT MORE COLLECTOR CURRENT IS GENERATED WITH LESS COLLECTOR VOLTAGE AS TEMPERATURE	8	7	11	6	10	6	11
6 451 63-24 DO YOU COMPUTE THE STATIC OPERATING POINT Q3 OF A TRANSISTOR AT DIFFERENT TEMPERATURES	3	3	5	4	2	4	6
6 452 63-25 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	31	39	25	26	33	28	39
6 453 63-26 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH SELF-	32	37	25	28	33	31	40

PCT MBRS PERF TASKS - DAFSC/NAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DT-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
6 454 63-27 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	33	41	25	28	35	33	43	
6 455 63-28 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	31	39	30	26	30	29	40	
6 456 63-29 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	31	39	30	27	30	29	39	
6 457 63-30 DO YOU IDENTIFY ON SCHEMATIC DIAGRAMS AND RELATE TO THE ACTUAL CIRCUITRY THE COMPONENTS ASSOCIATED WITH	24	30	20	20	25	20	34	
6 458 63-31 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM EMITTER (SWAMPING) RESISTOR STABILIZATION	36	44	30	34	38	31	46	
6 459 63-32 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM SELF-BIAS STABILIZATION	38	41	30	34	41	33	47	
6 460 63-33 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM THERMISTOR STABILIZATION	38	43	29	35	40	35	47	
6 461 63-34 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM FORWARD BIAS DIODE STABILIZATION	35	41	29	35	38	30	46	
6 462 63-35 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM REVERSE BIAS DIODE STABILIZATION	35	41	29	34	37	30	43	
6 463 63-36 DO YOU TROUBLESHOOT CIRCUITS WHICH HAVE COMPONENTS WHICH PERFORM DOUBLE DIODE STABILIZATION	27	33	20	25	30	22	36	
6 464 63-37 DO YOU IDENTIFY AMPLITUDE DISTORTION FOR TRANSISTOR CIRCUITS	42	53	41	39	37	43	50	
6 465 63-38 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF AMPLITUDE DISTORTION	44	47	45	44	40	44	53	
6 466 63-39 DO YOU IDENTIFY FREQUENCY DISTORTION FOR TRANSISTOR CIRCUITS	36	41	39	36	34	36	40	
6 467 63-40 DO YOU IDENTIFY PHASE DISTORTION FOR TRANSISTOR CIRCUITS	23	27	29	25	23	19	21	
6 468 63-41 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF PHASE DISTORTION	23	26	29	25	23	18	24	
6 469 63-42 DO YOU TROUBLESHOOT TRANSISTOR CIRCUITS TO FIND THE CAUSES OF FREQUENCY DISTORTION	33	39	38	34	31	32	36	
6 470 63-43 DO YOU NEED TO KNOW THE DEGENERATIVE EFFECTS ON THE CIRCUIT CAUSED BY CHANGING EMITTER RESISTANCE FOR	15	13	25	19	13	14	20	
6 471 63-44 DO YOU DETERMINE THE CLASS OF OPERATION FOR AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER CIRCUITS	20	23	25	18	19	20	20	
6 472 63-45 DO YOU TROUBLESHOOT OR REPAIR PARAPHASE AMPLIFIERS	23	39	23	28	22	14	20	
6 473 63-46 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS	60	73	50	57	59	54	71	
6 474 63-47 DO YOU TROUBLESHOOT OR REPAIR COMPLEMENTARY SYMMETRY CIRCUITS	31	33	29	29	34	28	37	
6 475 63-48 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED AMPLIFIERS	32	33	30	28	37	26	46	

PCT MGRS PERF TASKS- DAFSC/MAJCON GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DT-1SK

6 476 63-49 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED

AMPLIFIERS

SOLID-STATE
SPECIAL PURPOSE
DEVICES

POWER SUPPLIES

M 477 M1-01 DO YOU USE OR REFER TO VARACTORS	46	44	54	50	47	40	49
M 478 M1-02 DO YOU USE OR REFER TO TUNNEL DIODES	37	27	39	48	34	30	47
M 479 M1-03 DO YOU USE OR REFER TO FIELD EFFECT TRANSISTORS (FET)	40	37	41	41	44	34	50
M 480 M1-04 DO YOU USE OR REFER TO UNIJUNCTION TRANSISTORS	41	27	41	43	43	38	51
M 481 M1-05 DO YOU USE OR REFER TO ZENER DIODES	74	80	71	72	68	76	89
M 482 M1-06 DO YOU USE OR REFER TO INTEGRATED CIRCUITS	57	64	59	59	50	57	71
M 483 M2-01 IN YOUR PRESENT JOB, DO YOU WORK WITH POWER SUPPLIES	86	94	86	78	89	82	93
M 484 M2-02 DO YOU INSPECT POWER SUPPLIES	87	93	77	79	91	86	97
M 485 M2-03 DO YOU CLEAN POWER SUPPLIES	80	86	68	75	87	75	87
M 486 M2-04 DO YOU ALIGN OR ADJUST POWER SUPPLIES	76	83	73	71	79	76	81
M 487 M2-05 DO YOU TROUBLESHOOT TO POWER SUPPLY CIRCUIT LEVEL	81	90	80	74	85	78	91
M 488 M2-06 DO YOU TROUBLESHOOT TO POWER SUPPLY COMPONENTS	79	84	77	71	84	76	91
M 489 M2-07 DO YOU REMOVE OR REPLACE COMPLETE POWER SUPPLIES	86	91	79	79	90	84	97
M 490 M2-08 DO YOU REMOVE OR REPLACE POWER SUPPLY COMPONENTS	79	86	70	72	84	77	89
M 491 M2-09 DO YOU WORK WITH HALF-WAVE RECTIFIERS	68	69	70	67	68	65	73
M 492 M2-10 DO YOU WORK WITH FULL-WAVE RECTIFIERS OTHER THAN	69	70	70	66	70	66	77
BRIDGE RECTIFIERS							
M 493 M2-11 DO YOU WORK WITH BRIDGE RECTIFIERS	72	81	73	67	75	66	81
M 494 M2-12 DO YOU WORK WITH THREE-PHASE RECTIFIERS	63	64	63	60	63	61	76
M 495 M2-13 DO YOU USE OR REFER TO INPUT VOLTAGE	77	81	73	79	73	79	81
M 496 M2-14 DO YOU USE OR REFER TO INPUT FREQUENCY	54	51	57	52	54	52	63
M 497 M2-15 DO YOU USE OR REFER TO PEAK OUTPUT VOLTAGE	58	66	59	61	58	54	57
M 498 M2-16 DO YOU USE OR REFER TO AVERAGE OUTPUT VOLTAGE	62	66	66	62	63	56	66
M 499 M2-17 DO YOU USE OR REFER TO RIPPLE AMPLITUDE	45	44	36	47	44	43	61
M 500 M2-18 DO YOU USE OR REFER TO RIPPLE FREQUENCY	36	30	30	41	34	36	40
M 501 M2-19 DO YOU USE OR REFER TO PEAK REVERSE (INVERSE) VOLTAGE	28	23	32	31	30	24	27
M 502 M2-20 DO YOU USE OR REFER TO SHAPE OF OUTPUT WAVEFORMS	51	51	46	55	50	50	47
M 503 M2-21 DO YOU USE OR REFER TO EFFECTIVE OUTPUT VOLTAGE	64	66	64	63	65	60	67
M 504 M2-22 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	68	70	70	62	69	68	74
FILTERS							
M 505 M2-23 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	66	64	68	61	67	68	74
FILTERS							
M 506 M2-24 DO YOU WORK WITH CIRCUITS WHICH EMPLOY CAPACITIVE	57	59	63	53	59	55	70
INPUT L-TYPE FILTERS							
M 507 M2-25 DO YOU WORK WITH CIRCUITS WHICH EMPLOY INDUCTIVE	56	57	59	53	57	54	69
INPUT L-TYPE FILTERS							
M 508 M2-26 DO YOU WORK WITH CIRCUITS WHICH EMPLOY LC PI-TYPE	52	53	57	48	56	47	63
FILTERS							
M 509 M2-27 DO YOU WORK WITH CIRCUITS WHICH EMPLOY RC PI-TYPE	51	51	55	48	54	47	61
FILTERS							
M 510 M2-28 DO YOU WORK WITH CIRCUITS WHICH EMPLOY DON'T	32	33	25	29	34	33	29
REMEMBER WHICH TYPE OF FILTER							
M 511 M2-29 DO YOU HAVE THE OPTION OF REPLACING ONE TYPE OF	7	6	4	6	6	8	13
FILTER WITH A DIFFERENT TYPE FILTER							
M 512 M3-01 DO YOU WORK WITH OSCILLATORS IN YOUR PRESENT JOB	76	80	70	68	83	72	91

PCT HGRS PERF TASKS- OAFSC/MAJCOM GRPS
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PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
513 H3-02 DO YOU INSPECT OSCILLATORS	74	60	64	64	80	73	86
514 H3-03 DO YOU ALIGN OR ADJUST OSCILLATORS	72	73	63	60	81	71	84
515 H3-04 DO YOU REMOVE OR REPLACE COMPLETE OSCILLATORS	71	76	57	63	81	67	81
516 H3-05 DO YOU REMOVE OR REPLACE OSCILLATOR COMPONENTS	64	70	50	51	68	64	84
517 H3-06 DO YOU TROUBLESHOOT TO OSCILLATOR CIRCUIT LEVEL	70	74	64	60	77	68	86
518 H3-07 DO YOU TROUBLESHOOT TO OSCILLATOR COMPONENTS	63	67	59	50	67	65	81
519 H3-08 DO YOU USE OR REFER TO FEEDBACK	57	57	52	53	61	53	71
520 H3-09 DO YOU USE OR REFER TO FREQUENCY DETERMINING DEVICES	56	63	50	51	60	53	67
(FDD)							
521 H3-10 DO YOU USE OR REFER TO AMPLITUDE STABILITY	45	39	48	46	48	40	60
522 H3-11 DO YOU USE OR REFER TO FREQUENCY STABILITY	65	71	59	56	70	64	71
523 H3-12 DO YOU USE OR REFER TO DAMPING	37	36	38	34	43	31	41
524 H3-13 DO YOU USE OR REFER TO REGENERATIVE FEEDBACK	48	49	48	44	54	43	49
525 H3-14 DO YOU USE OR REFER TO PIEZOELECTRIC EFFECT	20	26	20	19	20	19	29
526 H3-15 DO YOU USE OR REFER TO CRITICAL DAMPING	18	20	16	16	19	19	20
527 H3-16 DO YOU USE OR REFER TO OVER DAMPING	20	21	20	22	21	19	20
528 H3-17 DO YOU USE OR REFER TO OVER DAMPING	20	21	20	22	21	19	19
529 H3-18 DO YOU WORK WITH OSCILLATORS WHICH USE LC TANK	49	56	52	47	48	48	64
530 H3-19 DO YOU WORK WITH OSCILLATORS WHICH USE RC NETWORKS AS	55	56	55	50	58	54	64
FDD							
531 H3-20 DO YOU WORK WITH OSCILLATORS WHICH USE CRYSTALS AS	68	67	63	59	72	68	80
532 H3-21 DO YOU WORK WITH OSCILLATORS WHICH USE DON'T REMEMBER	18	17	18	16	23	15	14
WHICH TYPE OF FDD							
533 H3-22 DO YOU WORK WITH SERIES HARTLEY SINUSOIDAL	38	30	38	37	41	34	50
OSCILLATORS							
534 H3-23 DO YOU WORK WITH SHUNT HARTLEY SINUSOIDAL OSCILLATORS	37	30	39	34	41	33	50
535 H3-24 DO YOU WORK WITH COLPITTS SINUSOIDAL OSCILLATORS	40	31	41	38	43	37	51
536 H3-25 DO YOU WORK WITH CLAPP SINUSOIDAL OSCILLATORS	21	16	20	23	26	19	24
537 H3-26 DO YOU WORK WITH BUTLER SINUSOIDAL OSCILLATORS	26	24	27	26	27	23	33
538 H3-27 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE OF	36	47	29	29	41	35	33
OSCILLATORS							
539 11-01 DO YOU WORK WITH MULTIVIBRATORS IN YOUR PRESENT JOB	42	37	38	37	45	38	53
540 11-02 DO YOU INSPECT WAVE GENERATING OR SHAPING CIRCUITS	32	26	30	24	37	30	41
541 11-03 DO YOU ALIGN OR ADJUST WAVE GENERATING OR SHAPING	29	21	27	24	35	26	39
CIRCUITS							
542 11-04 DO YOU CALIBRATE WAVE GENERATING OR SHAPING CIRCUITS	22	19	21	18	25	21	30
543 11-05 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING	32	27	32	26	37	29	40
CIRCUITS							
544 11-06 DO YOU TROUBLESHOOT TO WAVE GENERATING OR SHAPING	30	17	29	26	35	26	40
CIRCUIT COMPONENTS							
545 11-07 DO YOU REMOVE OR REPLACE COMPLETE WAVE GENERATING OR	32	30	27	29	36	28	40
SHAPING CIRCUITS							
546 11-08 DO YOU REMOVE OR REPLACE WAVE GENERATING OR SHAPING	28	16	23	25	33	29	40
COMPONENTS							
547 11-09 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN LC TANK	29	16	34	23	33	27	43
CIRCUITS							

MULTIVIBRATORS

OSCILLATORS

PCT MBRS PERF TASKS- DAFSC/NAJCON GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

		DY-TSK									
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		001	002	003	004	005	006	007	008	009	010
1 548	11-10 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN RC NETWORKS	30	17	34	24	37	28	41			
1 549	11-11 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN CRYSTALS	29	14	32	24	35	27	37			
1 550	11-12 DO YOU WORK WITH MULTIVIBRATORS WHICH CONTAIN DON'T REMEMBER WHICH TYPE OF PFD	13	16	7	13	12	12	10			
1 551	11-13 DO YOU WORK WITH ADJUSTABLE MULTIVIBRATORS	24	21	29	22	27	24	31			
1 552	11-14 DO YOU WORK WITH MONOSTABLE MULTIVIBRATORS	26	21	34	23	31	21	30			
1 553	11-15 DO YOU WORK WITH BISTABLE MULTIVIBRATORS	20	23	32	24	32	24	33			
1 554	11-16 DO YOU WORK WITH DON'T REMEMBER WHICH TYPE MULTIVIBRATORS	13	11	0	12	17	12	16			
1 555	12-01 DO YOU WORK WITH LIMITERS OR CLAMPERS IN YOUR PRESENT JOB	57	54	50	50	57	57	74			
1 556	12-02 DO YOU WORK WITH SERIES DIODE LIMITERS	37	23	36	35	40	35	50			
1 557	12-03 DO YOU WORK WITH SHUNT DIODE LIMITERS	32	23	32	30	35	28	43			
1 558	12-04 DO YOU WORK WITH LIMITERS WITH BIAS	26	14	34	27	33	26	33			
1 559	12-05 DO YOU WORK WITH ZENER DIODE LIMITERS	34	30	36	34	40	33	49			
1 560	12-06 DO YOU WORK WITH TRANSISTOR LIMITERS	34	23	34	31	36	33	44			
1 561	12-07 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF LIMITERS	23	30	16	22	22	23	26			
1 562	12-08 DO YOU WORK WITH BASIC DIODE CLAMPING CIRCUITS	25	16	29	26	27	21	36			
1 563	12-09 DO YOU WORK WITH DIODE CLAMPING CIRCUITS WITH BIAS	22	13	25	24	25	19	27			
1 564	12-10 DO YOU WORK WITH DON'T KNOW WHICH TYPE OF CLAMPING CIRCUIT	24	27	16	21	24	24	31			
1 565	13-01 IN YOUR PRESENT JOB, DO YOU WORK ON EQUIPMENT WHICH CONTAINS ELECTRON TUBES	83	87	79	76	87	80	96			
1 566	13-02 DO YOU CHECK ELECTRON TUBES TO SEE IF THEY ARE GOOD	78	84	75	71	82	71	87			
1 567	13-03 DO YOU USE TUBE TESTERS TO CHECK ELECTRON TUBES	71	89	77	65	78	59	74			
1 568	13-04 DO YOU USE MULTIMETERS TO CHECK ELECTRON TUBES	51	46	52	41	51	56	59			
1 569	13-05 DO YOU USE SCOPES TO CHECK ELECTRON TUBES	35	37	43	34	30	36	40			
1 570	13-06 DO YOU USE SUBSTITUTION TO CHECK ELECTRON TUBES	80	84	77	72	85	75	90			
1 571	13-07 DO YOU USE OR REFER TO CUTOFF	29	24	39	28	27	26	43			
1 572	13-08 DO YOU USE OR REFER TO PEAK INVERSE VOLTAGE RATING	14	10	20	15	12	15	10			
1 573	13-09 DO YOU USE OR REFER TO RISE TIME	17	13	20	18	17	17	16			
1 574	13-10 DO YOU USE OR REFER TO TRANSISTOR TIME	16	16	21	17	15	13	20			
1 575	13-11 DO YOU USE OR REFER TO PLATE DISSIPATION RATING	14	11	20	17	13	15	13			
1 576	13-12 DO YOU USE OR REFER TO SATURATION	28	30	39	28	24	25	40			
1 577	13-13 DO YOU USE OR REFER TO DC PLATE RESISTANCE	23	20	29	23	21	25	24			
1 578	13-14 DO YOU COMPUTE ACTUAL VALUES OF THE DC PLATE RESISTANCE FOR ELECTRON TUBES	7	4	9	6	6	8	6			
1 579	13-15 DO YOU USE OR REFER TO PLATE VOLTAGE	75	80	73	65	79	72	91			
1 580	13-16 DO YOU USE OR REFER TO PLATE CURRENT	57	57	64	52	64	48	70			
1 581	13-17 DO YOU USE OR REFER TO GRID VOLTAGE	74	80	73	63	78	71	91			
1 582	13-18 DO YOU USE OR REFER TO GRID CURRENT	56	57	66	51	62	48	70			
1 583	13-19 DO YOU USE OR REFER TO CATHODE VOLTAGE	72	74	71	62	75	70	90			
1 584	13-20 DO YOU USE OR REFER TO CATHODE CURRENT	53	54	66	49	58	47	69			
1 585	13-21 DO YOU USE OR REFER TO THE TRIODE AMPLIFICATION FACTOR (THE AMPLIFICATION FACTOR FOR TRIODES IS DEFINED AS	12	6	21	9	12	12	16			

LIMITERS AND CLAMPERS

ELECTRON TUBES

PCT MARS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
	001	002	003	004	005	006	007		
1 506 13-22 DO YOU CALCULATE ACTUAL VALUES OF TRIODE AMPLIFICATION FACTORS	4	0	4	4	3	5	7		
1 507 13-23 DO YOU USE OR REFER TO MULTIGRID, TETRODE, PENTODE, ETC) AMPLIFICATION FACTORS	13	11	20	11	10	14	17		
1 508 13-24 DO YOU USE OR REFER TO ELECTRON TUBE TRANSCONDUCTANCE (6, WHICH IS MEASURED IN MHOS)	8	4	14	8	7	5	11		
1 509 13-25 DO YOU CALCULATE ACTUAL VALUES OF ELECTRON TUBE TRANSCONDUCTANCES	4	1	5	5	3	5	6		
1 590 13-26 DO YOU USE OR REFER TO THE ELECTRON TUBE PARAMETER CALLED AC PLATE RESISTANCE	6	1	9	6	6	6	10		
1 591 13-27 DO YOU CALCULATE ACTUAL VALUES OF AC PLATE RESISTANCE	5	1	4	5	6	3	7		
1 592 13-28 DO YOU USE OR REFER TO ELECTRON TUBE INTERELECTRODE CAPACITANCE	21	13	30	17	20	19	31		
1 593 13-29 DO YOU USE OR REFER TO CHARACTERISTIC CURVES IN YOUR WORK WITH ELECTRON TUBES	7	1	13	6	8	7	9		
1 594 13-30 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE VOLTAGE FOR A SPECIFIED BIAS	9	3	18	8	7	9	10		
1 595 13-31 DO YOU USE CHARACTERISTIC CURVES TO SELECT PLATE CURRENT FOR A SPECIFIED BIAS	8	3	18	7	7	9	9		
1 596 13-32 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR CUTOFF	10	7	18	9	10	9	9		
1 597 13-33 DO YOU USE CHARACTERISTIC CURVES TO SELECT BIAS REQUIRED FOR SATURATION	9	6	18	9	8	10	10		
1 598 13-34 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER GAIN	44	53	48	42	45	37	54		
1 599 13-35 DO YOU USE OR REFER TO ELECTRON TUBE AMPLIFIER EFFICIENCY	30	27	38	29	29	24	36		
1 600 13-36 DO YOU USE TEST TUBE CHECKERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	52	57	61	46	56	43	57		
1 601 13-37 DO YOU USE MULTIMETERS TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	35	36	34	30	34	41	39		
1 602 13-38 DO YOU USE OSCILLOSCOPES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	33	31	43	31	30	36	33		
1 603 13-39 DO YOU USE CHARACTERISTIC CURVES TO DETERMINE ELECTRON TUBE AMPLIFIER GAIN	6	0	13	6	7	6	10		
1 604 13-40 DO YOU CALCULATE ANY ELECTRON TUBE CAPACITANCES SUCH AS INPUT CAPACITANCE	4	1	2	5	3	5	7		
1 605 13-41 DO YOU USE OR REFER TO TUBE SOCKET NOTATION	67	79	64	56	71	62	81		
1 606 13-42 DO YOU USE OR REFER TO PIN NUMBERING SYSTEMS	75	84	70	64	79	71	96		
1 607 13-43 DO YOU USE OR REFER TO THE TYPE OF MATERIAL OR THE OPERATING TEMPERATURE OF THE EMITTING SURFACE IN THE	7	6	5	6	6	6	10		
1 608 13-44 DO YOU USE OR REFER TO TUBE SUBSTITUTION MATERIAL SUCH AS MANUALS OR CHARTS	39	53	41	33	41	34	47		
1 609 13-01 DO YOU WORK WITH ELECTRON TUBE AMPLIFIERS OR CIRCUITS IN YOUR PRESENT JOB	72	79	68	61	77	67	91		ELECTRON TUBE AMPLIFIERS AND CIRCUITS
1 610 13-02 DO YOU DETERMINE THE CLASS OF OPERATION FOR ELECTRON TUBE AMPLIFIERS IN ORDER TO TROUBLESHOOT AMPLIFIER	19	20	27	14	22	15	20		

PCT MORS PERF TASKS- DAFSC/MAJCOM GRPS

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

TASK GROUP SUMMARY PERCENT MEMBERS PERFORMING

		BY-TSK										
		SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
		001	002	003	004	005	006	007	008	009	010	011
J 611 J1-03 DO YOU TROUBLESHOOT OR REPAIR PARAMASE AMPLIFIERS												
		25	33	20	25	24	17	37				
J 612 J1-04 DO YOU TROUBLESHOOT OR REPAIR PUSH-PULL AMPLIFIERS												
		50	51	50	43	51	44	71				
J 613 J1-05 DO YOU TROUBLESHOOT OR REPAIR COMPOUND-CONNECTED												
		28	29	34	25	31	24	40				
J 614 J1-06 DO YOU TROUBLESHOOT OR REPAIR CASCADE-CONNECTED												
		30	29	32	25	35	25	43				
J 615 J1-07 DO YOU TROUBLESHOOT OR REPAIR DON'T KNOW WHICH TYPE												
		28	29	14	24	32	28	31				
J 616 J2-01 DO YOU WORK WITH GAS TUBES (HOT CATHODE OR COLD												
		39	46	32	33	44	35	44				
J 617 J2-02 DO YOU WORK WITH CATHODE-RAY TUBES												
		26	39	21	27	21	28	27				
J 618 J2-03 DO YOU USE OR REFER TO THE CHARACTERISTICS OF BEAM												
		6	6	5	4	5	6	11				
J 619 J2-04 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH BEAM												
		9	9	9	7	9	8	14				
J 620 J2-05 DO YOU USE OR REFER TO THE CHARACTERISTICS OF												
		19	7	23	16	24	16	14				
J 621 J2-06 DO YOU TROUBLESHOOT OR REPAIR CIRCUITS IN WHICH												
		26	24	21	23	37	20	20				
J 622 J2-07 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF												
		11	11	11	12	10	10	10				
J 623 J2-08 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF												
		10	13	11	11	9	10	10				
J 624 J2-09 DO YOU USE OR REFER TO THE PRINCIPLES OF OPERATION OF												
		10	14	11	11	8	11	10				
J 625 J2-10 DO YOU USE OR REFER TO PHOSPHOR SCREENS												
		16	26	16	16	13	18	11				
J 626 J2-11 DO YOU USE OR REFER TO AQUADAG COATINGS												
		9	9	11	12	6	11	4				
J 627 J2-12 DO YOU USE OR REFER TO ELECTRON OPTICS												
		4	3	7	5	3	5	4				
J 628 J2-13 DO YOU USE OR REFER TO PERSISTENCE												
		9	3	13	6	8	10	7				
J 629 J2-14 DO YOU USE OR REFER TO DECAY TIMES												
		7	6	13	8	6	6	6				
J 630 J2-15 DO YOU USE OR REFER TO FLUORESCENCE												
		9	4	16	12	8	11	6				
J 631 J2-16 DO YOU USE OR REFER TO PHOSPHORESCENCE												
		10	6	14	12	8	12	6				
J 632 J3-01 DO YOU WORK ON TRANSMIT OR RECEIVE SYSTEMS IN YOUR												
		91	94	88	87	92	91	97				
J 633 J3-02 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS												
		73	61	68	68	74	71	93				
J 634 J3-03 DO YOU PERFORM TASKS ON FREQUENCY MIXERS												
		81	84	75	72	83	81	94				
J 635 J3-04 DO YOU USE OR REFER TO THE HETERODYNING OF SIGNALS												
		66	60	63	61	70	65	80				
J 636 J3-05 DO YOU WORK WITH TRANSMIT OR RECEIVE SYSTEMS												
		45	39	48	43	51	44	44				
J 637 J3-06 DO YOU PERFORM TASKS ON MODULATED OSCILLATORS												
		58	59	61	54	62	54	64				
J 638 K1-01 DO YOU WORK ON AM TRANSMIT OR RECEIVE SYSTEMS IN YOUR												
		85	87	77	82	90	82	89				
J 639 K1-02 DO YOU INSPECT AM TRANSMIT OR RECEIVE SYSTEMS												
		85	89	73	82	90	81	91				
J 640 K1-03 DO YOU CLEAN AM TRANSMIT OR RECEIVE SYSTEMS												
		81	87	66	77	87	79	89				
J 641 K1-04 DO YOU ALIGN OR ADJUST AM TRANSMIT OR RECEIVE SYSTEMS												
		82	87	71	77	87	80	89				

HETERODYNING, MODULATION, AND
DEMULATION

AM SYSTEMS

SPECIAL PURPOSE ELECTRON TUBES

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
K 642 KI-05 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE SYSTEMS	85	90	82	82	90	80	90	
K 643 KI-06 DO YOU TROUBLESHOOT TO AM TRANSMIT OR RECEIVE COMPONENTS	81	89	75	77	86	76	89	
K 644 KI-07 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE SYSTEMS	84	90	77	82	89	81	89	
K 645 KI-08 DO YOU REMOVE OR REPLACE AM TRANSMIT OR RECEIVE COMPONENTS	82	89	71	78	86	78	89	
K 646 KI-09 DO YOU PERFORM TASKS ON RF OSCILLATORS	75	86	68	69	79	71	90	
K 647 KI-10 DO YOU PERFORM TASKS ON RF AMPLIFIERS	77	87	71	70	81	72	89	
K 648 KI-11 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	77	89	73	70	81	74	89	
K 649 KI-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	77	89	71	70	81	73	89	
K 650 KI-13 DO YOU PERFORM TASKS ON LOCAL OSCILLATORS	72	79	66	66	76	66	90	
K 651 KI-14 DO YOU PERFORM TASKS ON IF AMPLIFIERS	76	89	71	69	80	72	89	
K 652 KI-15 DO YOU PERFORM TASKS ON DETECTORS	74	84	66	68	78	67	90	
K 653 KI-16 DO YOU PERFORM TASKS ON DON'T REMEMBER WHICH AM STAGE	17	14	13	16	18	19	13	
K 654 KI-17 DO YOU USE OR REFER TO AMPLITUDE STABILIZATION IN TRANSMITTERS	48	39	46	49	49	47	64	
K 655 KI-18 DO YOU USE OR REFER TO FREQUENCY STABILIZATION IN TRANSMITTERS	70	69	64	65	76	65	80	
K 656 KI-19 DO YOU USE OR REFER TO SENSITIVITY OF RECEIVERS	83	89	79	78	89	79	90	
K 657 KI-20 DO YOU USE OR REFER TO SELECTIVITY OF RECEIVERS	78	81	73	73	84	76	87	
K 658 KI-21 DO YOU USE OR REFER TO 2ND HARMONIC DISTORTION	42	37	48	38	47	37	53	
K 659 KI-22 DO YOU USE OR REFER TO BANDPASS DISTORTION	44	36	52	45	49	38	56	
K 660 KI-23 DO YOU USE OR REFER TO SQUARE LAW DISTORTION	16	11	16	17	15	19	14	
K 661 KI-24 DO YOU USE OR REFER TO CO-CHANNEL INTERFERENCE	32	26	38	34	32	29	47	
K 662 KI-25 DO YOU USE OR REFER TO IMAGE FREQUENCIES IN RECEIVERS	45	30	52	44	51	37	60	
K 663 KI-26 DO YOU USE OR REFER TO SIGNAL TO IMAGE RATIOS OR IMAGE REJECTION RATIOS	36	29	43	36	40	29	49	
K 664 KI-27 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM TRANSMITTER SCHEMATIC DIAGRAMS	77	84	73	71	80	73	89	
K 665 KI-28 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH AM RECEIVER SCHEMATIC DIAGRAMS	77	84	75	71	81	72	89	
K 666 KI-29 DO YOU WORK WITH FM TRANSMIT OR RECEIVE SYSTEMS IN YOUR PRESENT JOB	33	26	52	26	27	43	23	
K 667 KI-30 DO YOU INSPECT FM TRANSMIT OR RECEIVE SYSTEMS	32	23	48	24	26	43	21	
K 668 KI-31 DO YOU CLEAN FM TRANSMIT OR RECEIVE SYSTEMS	30	17	41	24	25	41	20	
K 669 KI-32 DO YOU ALIGN FM TRANSMIT OR RECEIVE SYSTEMS	28	13	46	20	25	38	20	
K 670 KI-33 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE SYSTEMS	31	20	52	25	25	42	20	
K 671 KI-34 DO YOU TROUBLESHOOT TO FM TRANSMIT OR RECEIVE COMPONENTS	29	19	45	20	25	37	20	
K 672 KI-35 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE SYSTEMS	31	23	46	25	26	40	20	
K 673 KI-36 DO YOU REMOVE OR REPLACE FM TRANSMIT OR RECEIVE COMPONENTS	29	16	41	22	25	36	19	
K 674 KI-37 DO YOU PERFORM TASKS ON AUDIO AMPLIFIERS	26	10	45	18	24	35	19	
K 675 KI-38 DO YOU PERFORM TASKS ON FREQUENCY MULTIPLIERS	26	13	45	17	24	34	19	

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
K 676 K2-11 DO YOU PERFORM TASKS ON DRIVERS (INTERMEDIATE AMPLIFIERS)	26	11	43	18	24	35	19		
K 677 K2-12 DO YOU PERFORM TASKS ON POWER AMPLIFIERS	26	7	45	18	24	36	19		
K 678 K2-13 DO YOU PERFORM TASKS ON RF AMPLIFIERS	27	13	45	18	23	37	19		
K 679 K2-14 DO YOU PERFORM TASKS ON FREQUENCY CONVERTERS	26	10	45	18	23	34	19		
K 680 K2-15 DO YOU PERFORM TASKS ON IF AMPLIFIERS	26	13	45	18	23	37	19		
K 681 K2-16 DO YOU PERFORM TASKS ON LIMITERS	25	9	45	18	23	32	19		
K 682 K2-17 DO YOU PERFORM TASKS ON FREQUENCY DISCRIMINATORS	26	9	43	18	23	33	17		
K 683 K2-18 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM TRANSMITTERS	26	4	48	18	23	30	20		
K 684 K2-19 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SCHEMATIC DIAGRAMS OF FM RECEIVERS	27	13	48	18	24	37	19		
K 685 K3-01 DO YOU CONVERT DECIMAL (BASE 10) NUMBERS TO OCTAL (BASE 8) NUMBERS	7	3	18	5	8	5	10		
K 686 K3-02 DO YOU CONVERT DECIMAL NUMBERS TO BINARY (BASE 2) NUMBERS	21	31	25	15	13	28	39		
K 687 K3-03 DO YOU CONVERT OCTAL NUMBERS TO DECIMAL NUMBERS	5	4	20	5	6	4	6		
K 688 K3-04 DO YOU CONVERT OCTAL NUMBERS TO BINARY NUMBERS	5	3	20	4	6	4	6		
K 689 K3-05 DO YOU CONVERT BINARY NUMBERS TO DECIMAL NUMBERS	21	33	30	15	13	26	37		NUMBERING SYSTEMS
K 690 K3-06 DO YOU CONVERT BINARY NUMBERS TO OCTAL NUMBERS	5	3	20	5	5	4	6		
K 691 K3-07 DO YOU ADD BINARY NUMBERS TO GET A SUM	15	17	25	13	11	15	26		
K 692 K3-08 DO YOU SUBTRACT BINARY NUMBERS USING THE END-AROUND-CARRY METHOD	8	4	18	6	9	7	11		
K 693 K3-09 DO YOU SUBTRACT BINARY NUMBERS USING THE DIRECT SUBTRACTION METHOD	11	9	25	12	11	8	13		
K 694 K3-10 DO YOU ADD OCTAL NUMBERS TO GET A SUM	5	3	18	4	6	5	4		
K 695 K3-11 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO LOGIC FUNCTIONS	18	14	23	14	20	15	26		
L 696 L1-02 DO YOU CONSTRUCT TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	7	0	14	6	10	7	6		
L 697 L1-03 DO YOU CONSTRUCT TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	7	0	14	6	10	7	6		
L 698 L1-04 DO YOU CONSTRUCT TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	7	0	14	6	10	7	4		
L 699 L1-05 DO YOU CONSTRUCT TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS OR GATES	7	0	14	6	9	7	4		
L 700 L1-06 DO YOU USE OR REFER TO TRUTH TABLES FOR AND LOGIC SYMBOLS OR GATES	10	3	16	9	13	9	14		LOGIC FUNCTIONS
L 701 K1-07 DO YOU USE OR REFER TO TRUTH TABLES FOR OR LOGIC SYMBOLS OR GATES	10	1	16	9	13	9	16		
L 702 K1-08 DO YOU USE OR REFER TO TRUTH TABLES FOR AND OR OR LOGIC SYMBOLS WITH STATE INDICATORS	10	1	14	9	12	8	16		
L 703 L1-09 DO YOU USE OR REFER TO TRUTH TABLES FOR EXCLUSIVE OR LOGIC SYMBOLS	10	3	16	8	13	9	11		
L 704 L1-10 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR AND GATES	14	10	20	12	17	10	20		
L 705 L1-11 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR OR GATES	14	10	20	12	17	10	21		
L 706 L1-12 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR NAND OR NOR GATES	14	10	20	12	17	10	20		

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
L 707 L1-13 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR EXCLUSIVE OR GATES	13	9	20	12	17	10	21	
L 708 L2-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS RELATING TO BOOLEAN EQUATIONS, LOGIC DIAGRAMS, OR LOGIC	4	7	2	2	5	1	14	
L 709 L2-02 DO YOU DRAW LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUITS	4	0	11	3	7	4	3	
L 710 L2-03 DO YOU CONSTRUCT TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	4	0	7	3	5	3	3	
L 711 L2-04 DO YOU DRAW LOGIC DIAGRAMS FROM GIVEN BOOLEAN EQUATIONS	5	1	14	3	6	5	4	
L 712 L2-05 DO YOU MEASURE INPUTS OR OUTPUTS OF LOGIC GATES	12	9	14	11	15	9	16	
L 713 L2-06 DO YOU DEVELOP OR ANALYZE BOOLEAN EQUATIONS IN THE PROCESS OF TROUBLESHOOTING DIGITAL CIRCUITS	6	6	11	5	9	5	7	BOOLEAN EQUATIONS
L 714 L2-07 DO YOU ANALYZE LOGIC CIRCUITS BY USING BOOLEAN ALGEBRA	6	4	13	6	8	6	6	
L 715 L2-08 DO YOU USE OR REFER TO LOGIC SYMBOLS FOR DIRECT COUPLED TRANSISTOR LOGIC (DCTL) CIRCUIT GATES	8	6	9	7	10	5	13	
L 716 L2-09 DO YOU USE OR REFER TO TRUTH TABLES FOR CURRENT MODE LOGIC (CML) CIRCUITS	4	0	7	5	6	4	3	
L 717 L2-10 DO YOU USE OR REFER TO LOGIC DIAGRAMS CONSISTING OF MORE THAN ONE GATE	10	9	14	8	14	7	16	
L 718 L2-11 DO YOU COMPUTE SUM AND CARRY EXPRESSIONS FOR SERIAL HALF OR FULL ADDER LOGIC DIAGRAMS	5	0	7	4	7	4	6	
L 719 L2-12 DO YOU TRACE DATA FLOW THROUGH PARALLEL FULL ADDER LOGIC DIAGRAMS	7	1	11	5	10	5	10	
L 720 L2-13 DO YOU WORK WITH ASTABLE (FREE RUNNING) MULTIVIBRATORS	13	10	18	10	16	11	20	
L 721 L2-14 DO YOU WORK WITH BISTABLE (FLIP-FLOP) MULTIVIBRATORS	14	11	20	10	16	11	20	
L 722 L2-15 DO YOU WORK WITH MONOSTABLE (ONE-SHOT) MULTIVIBRATORS	13	10	18	10	16	11	16	
L 723 L2-16 DO YOU USE OR REFER TO FLIP-FLOP MULTIVIBRATOR SYMBOLS	13	11	20	11	15	10	16	
L 724 L2-17 DO YOU USE OR REFER TO SINGLE-SHOT MULTIVIBRATOR SYMBOLS	12	10	18	10	14	9	14	
L 725 L2-18 DO YOU USE OR REFER TO FLIP-FLOP CIRCUIT DIAGRAMS	12	11	18	11	15	9	17	
L 726 L2-19 DO YOU USE OR REFER TO FLIP-FLOP TRUTH TABLES	8	7	14	8	9	7	11	
L 727 L2-20 DO YOU USE OR REFER TO COMPLEMENTED FLIP-FLOP LOGIC SYMBOLS	10	9	16	9	12	6	16	
L 728 L2-21 DO YOU USE OR REFER TO COMPLEMENTING FLIP-FLOP LOGIC SYMBOLS	10	9	16	9	12	6	17	
L 729 L2-22 DO YOU MEASURE OUTPUT WAVESHAPES OF LOGIC CIRCUITS	11	3	14	9	15	8	16	
L 730 L2-23 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTED FLIP-FLOP SCHEMATIC DIAGRAMS	9	3	13	8	13	7	14	
L 731 L2-24 DO YOU TRACE DATA FLOW THROUGH COMPLEMENTING FLIP-FLOP SCHEMATIC DIAGRAMS	9	3	13	8	12	6	16	
L 732 L2-25 DO YOU CONSTRUCT TRUTH TABLES FOR J-K FLIP-FLOP LOGIC SYMBOLS	5	1	11	5	7	3	6	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
M 761 M1-05 DO YOU WORK WITH BLOCKING OSCILLATORS	18	9	23	19	17	19	20
M 762 M1-06 DO YOU USE OR REFER TO RISE TIME	18	10	23	16	22	17	19
M 763 M1-07 DO YOU USE OR REFER TO FALL OR FLICKBACK TIME	16	9	25	13	21	16	13
M 764 M1-08 DO YOU USE OR REFER TO SWEEP TIME	21	13	25	20	23	24	14
M 765 M1-09 DO YOU USE OR REFER TO ELECTRICAL LENGTH OF SAWTOOTH	16	11	23	17	18	14	14
WAVEFORMS							
M 766 M1-10 DO YOU USE OR REFER TO PHYSICAL LENGTH OF SAWTOOTH	12	9	20	12	12	12	13
WAVEFORMS							
M 767 M1-11 DO YOU USE OR REFER TO LINEAR SLOPE OF SAWTOOTH	11	9	23	12	13	9	13
WAVEFORMS							
M 768 M1-12 DO YOU USE OR REFER TO GATE LENGTH OF SAWTOOTH	12	9	21	12	13	12	13
WAVEFORMS							
M 769 M2-01 DO YOU USE SIGNAL GENERATORS IN YOUR PRESENT JOB	88	94	84	84	89	86	94
M 770 M2-02 DO YOU PERFORM OPERATIONAL CHECKS WHILE USING SIGNAL GENERATORS	86	87	86	83	89	82	93
M 771 M2-03 DO YOU PERFORM PERIODIC MAINTENANCE SUCH AS ADJUSTING, ALIGNING, OR CALIBRATING WHILE USING SIGNAL GENERATORS	66	63	63	66	72	63	70
M 772 M2-04 DO YOU TROUBLESHOOT TO AN ASSEMBLY OR SUBASSEMBLY WHILE USING SIGNAL GENERATORS	69	69	73	68	71	65	76
M 773 M2-05 DO YOU TROUBLESHOOT TO THE SMALLEST REPLACEABLE COMPONENT WHILE USING SIGNAL GENERATORS	57	50	57	59	60	53	59
M 774 M2-06 DO YOU USE AUDIO SINE-WAVE GENERATORS	76	84	77	69	77	77	84
M 775 M2-07 DO YOU USE AUDIO NON-SINUSOIDAL WAVE GENERATORS SUCH AS SQUARE WAVE, TRIANGLE, PULSE, OR SPIKE	23	17	27	26	26	18	24
M 776 M2-08 DO YOU USE RF GENERATORS LESS THAN 1,000 MHZ	75	81	73	76	74	72	79
M 777 M2-09 DO YOU USE RF GENERATORS GREATER THAN 1,000 MHZ	36	26	39	34	39	37	40
M 778 M2-10 DO YOU USE OTHER SPECIAL PURPOSE OR MULTI-FUNCTION GENERATORS	40	39	43	41	40	34	41
M 779 M3-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY TASKS DEALING WITH ALTERNATING CURRENT OR DIRECT CURRENT MOTORS OR	64	61	55	56	70	58	81
M 780 M3-02 DO YOU INSPECT MOTORS	64	63	54	55	71	59	83
M 781 M3-03 DO YOU CLEAN OR LUBRICATE MOTORS	58	57	46	51	65	51	70
M 782 M3-04 DO YOU OPERATE MOTORS	41	63	55	54	66	53	81
M 783 M3-05 DO YOU REMOVE OR REPLACE COMPLETE MOTORS	64	63	52	56	70	59	81
M 784 M3-06 DO YOU REMOVE OR REPLACE MOTOR PARTS	33	29	29	29	43	25	33
M 785 M3-07 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF MOTORS	60	59	52	54	64	57	79
M 786 M3-08 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF MOTORS	24	20	27	21	30	19	24
M 787 M3-09 DO YOU PERFORM ANY TASKS ON FIELD COILS	8	3	9	9	7	9	14
M 788 M3-10 DO YOU PERFORM ANY TASKS ON ARMATURES	15	14	14	14	14	12	16
M 789 M3-11 DO YOU PERFORM ANY TASKS ON MOTORS	12	7	14	11	10	10	17
M 790 M3-12 DO YOU PERFORM ANY TASKS ON BRUSHES	42	41	46	36	50	29	44
M 791 M3-13 DO YOU PERFORM ANY TASKS ON SLIP RINGS	12	7	11	11	11	12	20
M 792 M3-14 DO YOU PERFORM ANY TASKS ON COMMUTATORS	16	13	16	14	18	12	20
M 793 M3-15 DO YOU PERFORM ANY TASKS ON POLE PIECES	8	6	9	9	7	10	11

MOTORS AND GENERATORS

USE OF SIGNAL
GENERATORS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

Task Description	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007
M 794 M3-16 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OF THE FORCE OR TORQUE CREATED BY A MOTOR	8	4	5	3	4	18	10
M 795 M3-17 DO YOU DETERMINE OR MEASURE THE DIRECTION OF THE MECHANICAL FORCE OR TORQUE CREATED BY A MOTOR	9	7	5	6	7	17	14
M 796 M3-18 DO YOU DETERMINE OR MEASURE THE MAGNITUDE OR DIRECTION OF THE INDUCED VOLTAGE IN MOTORS	5	6	4	6	3	6	9
M 797 M3-19 DO YOU WORK WITH SYNCHRONOUS MOTORS	27	21	23	29	29	29	27
M 798 M3-20 DO YOU WORK WITH INDUCTION MOTORS	29	33	27	26	30	29	37
M 799 M3-21 DO YOU WORK WITH SPLIT-PHASE MOTORS	19	13	27	17	19	20	23
M 800 M3-22 DO YOU WORK WITH SOME COMBINATION OF THE ABOVE MOTORS	33	36	27	29	33	31	39
M 801 M3-23 DO YOU INSPECT GENERATORS	15	7	21	14	17	12	24
M 802 M3-24 DO YOU CLEAN OR LUBRICATE GENERATORS	13	1	14	12	16	10	20
M 803 M3-25 DO YOU OPERATE GENERATORS	17	14	21	14	20	13	26
M 804 M3-26 DO YOU REMOVE OR REPLACE COMPLETE GENERATORS	12	3	11	11	14	10	20
M 805 M3-27 DO YOU REMOVE OR REPLACE GENERATOR PARTS	7	0	11	7	8	6	7
M 806 M3-28 DO YOU TROUBLESHOOT AS FAR AS CHECKING WIRE CONNECTIONS OF GENERATORS	12	3	14	10	14	10	20
M 807 M3-29 DO YOU TROUBLESHOOT DOWN TO COMPONENT PARTS OF GENERATORS	6	0	11	6	7	5	4
M 808 M1-01 DO YOU WORK WITH METERS IN YOUR PRESENT JOB	83	90	80	81	85	82	87
M 809 M1-02 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF PERMANENT MAGNETS	21	13	30	21	22	20	19
M 810 M1-03 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF MOVING COILS	23	19	36	23	25	23	20
M 811 M1-04 DO YOU CONCEPTUALIZE OR CONSIDER THE FUNCTIONS OF SPIRAL SPRINGS	21	17	32	21	22	20	17
M 812 M1-05 DO YOU READ METER SCALES	84	90	82	82	86	83	87
M 813 M1-06 DO YOU EXTEND THE RANGE OF AMMETERS	32	29	30	40	31	31	30
M 814 M1-07 DO YOU ZERO OHMMETERS	83	86	82	80	86	83	87
M 815 M1-08 DO YOU ZERO AMMETERS	48	47	41	53	44	50	53
M 816 M1-09 DO YOU EXTEND THE RANGE OF VOLTMETERS	46	33	43	51	48	44	53
M 817 M1-10 DO YOU USE OR REFER TO VOLTMETER SENSITIVITY (EXPRESSED IN UNITS OF OHMS PER VOLT)	54	53	50	53	59	52	59
M 818 M2-01 DO YOU WORK WITH SATURABLE REACTORS OR MAGNETIC AMPLIFIERS IN YOUR PRESENT JOB	14	3	9	14	21	12	20
M 819 M2-02 DO YOU INSPECT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	13	1	5	12	21	10	19
M 820 M2-03 DO YOU CLEAN MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	10	0	2	12	16	8	17
M 821 M2-04 DO YOU ADJUST MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	7	0	0	8	11	6	10
M 822 M2-05 DO YOU TROUBLESHOOT MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	11	1	5	12	19	8	11
M 823 M2-06 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIERS OR SATURABLE REACTORS	13	1	4	13	21	10	19
M 824 M2-07 DO YOU REMOVE OR REPLACE MAGNETIC AMPLIFIER OR SATURABLE REACTOR COMPONENTS	7	0	2	8	10	4	10

METER MOVEMENTS

SATURABLE REACTORS AND MAGNETIC AMPLIFIERS

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007		
N 825 N2-08 DO YOU USE OR REFER TO HYSTERESIS CURVES OR LOOPS	4	0	5	4	6	3	7		
N 826 N2-09 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	5	0	4	5	9	4	6		
N 827 N2-10 DO YOU MEASURE OUTPUT WAVEFORMS ACROSS REACTOR	6	0	4	6	10	5	11		
N 828 N2-11 DO YOU INTERPRET SCHEMATIC DRAWINGS TO DEVELOP OUTPUT	4	0	2	5	7	3	6		
N 829 N2-12 DO YOU USE OR REFER TO COERCIVE FORCE IN SATURABLE	2	0	2	2	2	1	3		
N 830 N2-13 DO YOU USE OR REFER TO RESIDUAL MAGNETISM IN	3	0	2	4	4	2	4		
N 831 N2-14 DO YOU USE OR REFER TO FLUX DENSITY IN SATURABLE	2	0	2	3	3	2	4		
N 832 N2-15 DO YOU USE OR REFER TO POINT OF SATURATION IN	4	0	2	4	6	4	4		
N 833 N2-16 DO YOU USE OR REFER TO SATURABLE REACTOR SCHEMATIC	9	1	7	10	14	7	11		
SYMBOLS									
N 834 N3-01 DO YOU WORK WITH WAVESHAPING CIRCUITS IN YOUR PRESENT	20	7	20	19	22	21	23		
JOBS									
N 835 N3-02 DO YOU USE OR REFER TO TRANSIENT INTERVALS	11	3	13	10	15	11	13		
N 836 N3-03 DO YOU USE OR REFER TO PULSE WIDTH (PM)	15	4	14	14	17	16	17		
N 837 N3-04 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)	12	3	14	12	16	13	14		
N 838 N3-05 DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY	13	3	14	12	15	14	16		
(PRT)									
N 839 N3-06 DO YOU USE OR REFER TO DIFFERENTIATING CIRCUITS	13	3	18	12	18	12	16		
N 840 N3-07 DO YOU USE OR REFER TO INTEGRATING CIRCUITS	14	4	18	12	17	13	17		
N 841 N3-08 DO YOU USE OR REFER TO THE CLASSIFICATION OF TIME	10	4	16	12	11	9	10		
CONSTANTS (TC), AS LONG, MEDIUM, OR SHORT									
N 842 N3-09 DO YOU DETERMINE WHETHER AN LR OR RC CIRCUIT IS	6	1	7	6	10	5	6		
DIFFERENTIATING OR INTEGRATING BASED ON THE TIME CONSTANT									
N 843 N3-10 DO YOU WORK WITH SQUARE WAVE GENERATORS	16	4	18	16	18	14	20		
N 844 N3-11 DO YOU WORK WITH RECTANGULAR WAVE GENERATORS	10	4	14	10	11	7	9		
PRESENT JOBS									
O 845 01-01 DO YOU WORK ON SINGLE SIDEBAND SYSTEMS IN YOUR	54	16	45	84	72	31	34		
O 846 01-02 DO YOU INSPECT 558 TRANSMIT OR RECEIVE SYSTEMS	53	14	43	82	70	29	36		
O 847 01-03 DO YOU CLEAN 558 TRANSMIT OR RECEIVE SYSTEMS	49	14	32	76	65	26	34		
O 848 01-04 DO YOU ALIGN 558 TRANSMIT OR RECEIVE SYSTEMS	47	14	41	71	61	27	29		
O 849 01-05 DO YOU TROUBLESHOOT TO 558 TRANSMIT OR RECEIVE	54	16	46	83	71	30	36		
SYSTEMS									
O 850 01-06 DO YOU TROUBLESHOOT TO 558 TRANSMIT OR RECEIVE	48	14	43	75	62	25	33		
COMPONENTS									
O 851 01-07 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE	52	16	41	83	70	28	31		
SYSTEMS									
O 852 01-08 DO YOU REMOVE OR REPLACE 558 TRANSMIT OR RECEIVE	48	16	38	75	63	26	33		
COMPONENTS									

WAVESHAPING CIRCUITS

SINGLE SIDEBAND SYSTEMS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
0 853 01-09 DO YOU PERFORM TASKS ON SSB AUDIO AMPLIFIERS	43	14	39	65	55	25	30	
0 854 01-10 DO YOU PERFORM TASKS ON SSB BALANCED MODULATORS	41	14	39	64	53	24	29	
0 855 01-11 DO YOU PERFORM TASKS ON SSB CARRIER OSCILLATORS	37	13	36	56	48	22	29	
0 856 01-12 DO YOU PERFORM TASKS ON SSB LC FILTERS	36	13	38	55	47	20	27	
0 857 01-13 DO YOU PERFORM TASKS ON SSB CRYSTAL FILTERS	32	9	32	50	40	19	23	
0 858 01-14 DO YOU PERFORM TASKS ON SSB MECHANICAL FILTERS	37	10	34	57	47	22	30	
0 859 01-15 DO YOU PERFORM TASKS ON SSB OSCILLATORS	42	14	41	65	53	24	31	
0 860 01-16 DO YOU PERFORM TASKS ON SSB MIXERS	42	14	39	65	52	24	30	
0 861 01-17 DO YOU PERFORM TASKS ON SSB DRIVERS	42	14	39	65	52	24	30	
0 862 01-18 DO YOU PERFORM TASKS ON SSB POWER AMPLIFIERS	43	13	41	68	53	24	29	
0 863 01-19 DO YOU PERFORM TASKS ON SSB RF AMPLIFIERS	43	14	41	68	52	24	30	
0 864 01-20 DO YOU PERFORM TASKS ON SSB FREQUENCY CONVERTERS	39	10	41	62	47	22	27	
0 865 01-21 DO YOU PERFORM TASKS ON SSB IF AMPLIFIERS	42	14	39	66	52	24	30	
0 866 01-22 DO YOU PERFORM TASKS ON SSB DEMODULATORS	38	13	38	58	49	21	27	
0 867 01-23 DO YOU PERFORM TASKS ON SSB DON'T REMEMBER WHICH SSB	11	1	7	18	14	6	10	
SYSTEM STAGES								
0 868 01-24 DO YOU USE OR REFER TO SELECTIVE FADING	21	7	23	30	25	15	20	
0 869 01-25 DO YOU USE OR REFER TO PEAK POWER	37	13	41	56	43	24	26	
0 870 01-26 DO YOU USE OR REFER TO FREQUENCY STABILITY	45	14	46	67	59	24	30	
0 871 01-27 DO YOU USE OR REFER TO RESPONSE CURVES FOR	16	1	20	25	19	12	11	
BANDWIDTH FILTERS								
0 872 01-28 DO YOU CALCULATE PEAK POWER OR EFFECTIVE POWER OF SSB	22	7	27	39	24	15	10	
TRANSMITTERS								
0 873 01-29 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB	43	14	45	65	56	23	27	
TRANSMITTER SCHEMATIC DIAGRAMS								
0 874 01-30 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH SSB	43	14	45	66	55	22	29	
RECEIVER SCHEMATIC DIAGRAMS								
0 875 03-01 DO YOU WORK ON PULSE MODULATION SYSTEMS IN YOUR	4	7	0	3	3	4	7	
PRESENT JOB								
0 876 02-02 DO YOU INSPECT PULSE MODULATION SYSTEMS	4	6	0	3	3	4	7	
0 877 02-03 DO YOU CLEAN PULSE MODULATION SYSTEMS	3	4	0	3	3	4	4	
0 878 02-04 DO YOU ALIGN PULSE MODULATION SYSTEMS	3	4	0	3	3	4	4	
0 879 02-05 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEMS	4	4	0	4	3	4	6	
0 880 02-06 DO YOU TROUBLESHOOT TO PULSE MODULATION SYSTEM	3	4	0	3	3	4	3	
COMPONENTS								
0 881 02-07 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEMS	3	6	0	3	3	4	4	
0 882 02-08 DO YOU REMOVE OR REPLACE PULSE MODULATION SYSTEM	3	4	0	3	3	4	3	
COMPONENTS								
0 883 02-09 DO YOU WORK ON PULSE-AMPLITUDE MODULATION (PAM)	2	4	0	2	3	2	1	
SYSTEMS								
0 884 02-10 DO YOU WORK ON PULSE-DURATION MODULATION (PDM)	2	0	0	2	3	1	1	
SYSTEMS								
0 885 02-11 DO YOU WORK ON PULSE-POSITION MODULATION (PPM)	2	4	0	2	3	1	3	
SYSTEMS								
0 886 02-12 DO YOU WORK ON PULSE-CODE MODULATION (PCM) SYSTEMS	2	4	0	2	2	2	1	
0 887 02-13 DO YOU WORK ON LINE PULSING MODULATION SYSTEMS	1	1	0	2	2	1	1	
0 888 02-14 DO YOU WORK ON DON'T REMEMBER WHICH TYPE OF	2	3	0	1	0	3	3	
MODULATION SYSTEM								

PULSE MODULATION SYSTEMS

PT MBRs PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

SPC SPC SPC SPC SPC SPC
001 002 003 004 005 006 007

0 889	02-15	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	3	6	2	2	3	3	4
POWER SUPPLIES									
0 890	02-16	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	2	3	2	1	2	2	3
CHARGING CHOKES AND CHARGING DIODES									
0 891	02-17	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	2	4	2	2	3	2	4
PULSE FORMING NETWORKS									
0 892	02-18	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	2	3	0	1	3	2	4
TIMERS									
0 893	02-19	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	1	0	0	1	2	1	0
SWITCHES SUCH AS GAS THYRATRONS									
0 894	02-20	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	2	0	0	2	2	2	1
PULSE TRANSFORMERS									
0 895	02-21	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	2	6	2	2	2	2	3
TRANSMITTER TUBES									
0 896	02-22	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM RF	3	6	2	3	2	3	3
AMPLIFIERS									
0 897	02-23	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	3	4	2	3	3	3	3
FREQUENCY CONVERTERS									
0 898	02-24	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	3	6	2	3	3	3	3
IF AMPLIFIERS									
0 899	02-25	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	3	6	2	2	3	2	3
DETECTORS									
0 900	02-26	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	1	1	0	2	2	2	1
VIDEO AMPLIFIERS									
0 901	02-27	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	1	0	0	2	2	1	0
POWER VIDEO AMPLIFIERS									
0 902	02-28	DO YOU PERFORM TASKS ON PULSE MODULATION SYSTEM	1	3	0	0	0	2	1
DON'T REMEMBER WHICH PULSE MODULATION SYSTEM STAGES									
0 903	02-29	DO YOU USE OR REFER TO PULSE RECURRENCE FREQUENCY (PRF)	2	1	0	1	3	2	1
0 904 02-30 DO YOU USE OR REFER TO PULSE RECURRENCE TIME (PRT)									
0 905	02-31	DO YOU USE OR REFER TO PULSE WIDTH (PW)	2	1	0	1	3	2	1
0 906	02-32	DO YOU USE OR REFER TO PULSE SHAPE	2	1	2	2	3	3	3
0 907	02-33	DO YOU USE OR REFER TO PULSE POWER	2	7	2	2	2	1	1
0 908	02-34	DO YOU USE OR REFER TO AVERAGE POWER	2	3	2	2	2	2	0
0 909	02-35	DO YOU CALCULATE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)	1	0	0	1	2	1	0
0 910 02-36 DO YOU MEASURE PULSE RECURRENCE TIME (PRT) OR PULSE RECURRENCE FREQUENCY (PRF)									
0 911	02-37	DO YOU USE FORMULAS TO CALCULATE AVERAGE POWER OR PEAK POWER OF PULSE MODULATION TRANSMIT SYSTEMS	1	0	0	1	2	1	0
0 912 02-38 DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION TRANSMITTER SCHEMATIC DIAGRAMS									
0 913	02-39	DO YOU TRACE SIGNALS OR CURRENT PATHS THROUGH PULSE MODULATION RECEIVER SCHEMATIC DIAGRAMS	3	4	2	3	3	3	4
0 914	03-01	DO YOU WORK WITH ANTENNAS IN YOUR PRESENT JOB	88	89	68	90	92	90	93
0 915	03-02	DO YOU INSPECT ANTENNAS	88	90	63	89	92	89	94

PCT MBRS PERF TASKS- DAFSC/MAUCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

0 916 03-03 DO YOU CLEAN ANTENNAS	81	80	61	84	85	79	87
0 917 03-04 DO YOU PHYSICALLY ALIGN ANTENNAS	33	30	23	34	32	35	41
0 918 03-05 DO YOU ELECTRICALLY ALIGN ANTENNAS	32	23	21	32	35	33	34
0 919 03-06 DO YOU TROUBLESHOOT TO ANTENNAS	87	87	70	89	91	86	93
0 920 03-07 DO YOU TROUBLESHOOT TO ANTENNA COMPONENTS	41	30	34	42	41	47	41
0 921 03-08 DO YOU REMOVE OR INSTALL ANTENNAS	69	90	64	91	92	90	96
0 922 03-09 DO YOU REMOVE OR REPLACE COMPONENTS OF ANTENNAS	38	29	27	39	37	44	40
0 923 03-10 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF E OR ELECTRIC FIELD LINES	8	1	9	11	6	8	13
0 924 03-11 DO YOU USE OR REFER TO TECHNICAL DATA CONTAINING REPRESENTATIONS OF H OR MAGNETIC FIELD LINES	7	1	7	11	5	7	14
0 925 03-12 DO YOU DETERMINE THE DIRECTION OF THE MAGNETIC LINES IN RELATION TO THE ELECTRIC LINES OF FORCE FOR ANTENNAS	7	1	7	10	5	8	14
0 926 03-13 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE OF CORRECT LENGTH (HALF-WAVE) ACT AS	12	7	11	14	15	11	11
0 927 03-14 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE LONGER THAN A HALF-WAVE ACT AS INDUCTIVE LOADS	12	4	11	15	15	11	13
0 928 03-15 DO YOU USE OR REFER TO THE GENERAL RULE THAT ANTENNAS WHICH ARE SHORTER THAN A HALF-WAVE ACT AS CAPACITIVE LOADS	19	6	9	17	18	13	14
0 929 03-16 DO YOU WORK WITH HERTZ ANTENNAS	22	19	21	22	24	19	37
0 930 03-17 DO YOU WORK WITH MARCONI ANTENNAS	16	19	14	18	19	11	21
0 931 03-18 DO YOU WORK WITH BROADSIDE ARRAYS	9	13	5	12	9	8	10
0 932 03-19 DO YOU WORK WITH END-FIRE ARRAYS	6	7	5	8	6	3	6
0 933 03-20 DO YOU WORK WITH CARBID ARRAYS	18	30	7	14	14	23	29
0 934 03-21 DO YOU WORK WITH COLLINER ARRAYS	7	6	7	11	6	8	6
0 935 03-22 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC INDUCTION FIELDS WHEN WORKING WITH ANTENNAS	7	1	9	7	6	9	11
0 936 03-23 DO YOU MEASURE ELECTROMAGNETIC INDUCTION FIELDS OF ANTENNAS	4	1	5	4	3	5	9
0 937 03-24 DO YOU USE OR REFER TO THE TERM ELECTROMAGNETIC RADIATION FIELDS WHEN WORKING WITH ANTENNAS	7	1	9	8	6	9	10
0 938 03-25 DO YOU MEASURE ELECTROMAGNETIC RADIATION FIELDS OF ANTENNAS	4	1	5	6	4	5	4
0 939 03-26 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA RADIATION	3	1	4	4	2	3	4
0 940 03-27 DO YOU USE OR REFER TO THE TIME PHASE OF ELECTRIC (E) AND MAGNETIC (H) COMPONENTS IN ANTENNA INDUCTION FIELD	3	1	4	4	2	3	6
0 941 03-28 ARE ANY OF THE ANTENNAS YOU WORK ON LINEARLY POLARIZED	13	16	13	18	12	11	13
0 942 03-29 ARE ANY OF THE ANTENNAS YOU WORK ON CIRCULARLY POLARIZED	10	10	9	12	11	10	20
0 943 03-30 DO YOU MEASURE OR DETERMINE THE POLARITY OF ANTENNAS YOU WORK ON	4	4	7	7	4	3	7
0 944 03-31 DO YOU CONSTRUCT, OR MAKE THE CALCULATIONS NECESSARY TO CONSTRUCT, ANTENNAS OF CORRECT LENGTH FOR	7	4	7	12	5	7	4

PCT MORS PERF TASKS - DAFSC/NAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
0 945 03-32 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS	7	6	9	9	7	6	1	
0 946 03-33 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS DIRECTORS	5	4	7	7	6	5	1	
0 947 03-34 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN PARASITIC ELEMENTS SERVING AS REFLECTORS	5	6	9	8	4	3	4	
0 948 03-35 DO THE ANTENNA ARRAYS YOU WORK WITH CONTAIN DON'T REMEMBER WHAT KIND OF ELEMENTS	35	39	21	28	37	38	50	
0 949 03-36 DO YOU WORK ON UNIDIRECTIONAL ANTENNAS	37	40	38	37	39	36	33	
0 850 03-37 DO YOU WORK ON BIDIRECTIONAL ANTENNAS	33	31	23	33	38	30	34	
0 851 03-38 DO YOU WORK ON DON'T REMEMBER THE DIRECTIONALITY	27	27	14	25	29	26	31	
0 852 03-39 DO YOU WORK WITH ROTAR ANTENNA ARRAYS	19	14	11	12	18	21	29	
P 953 P1-01 IN YOUR PRESENT JOB DO YOU WORK WITH TRANSMISSION LINES (TRANSMISSION LINES ARE DEFINED TO INCLUDE LEADS	73	81	59	71	76	70	77	
P 954 P1-02 DO YOU REFER TO OR USE COPPER LOSS OR IZR LOSS IN TRANSMISSION LINES	6	3	5	6	6	7	11	
P 955 P1-03 DO YOU REFER TO OR USE SKIN EFFECTS OF HIGH FREQUENCY CURRENTS IN TRANSMISSION LINES	12	9	16	11	14	10	17	
P 956 P1-04 DO YOU REFER TO OR USE RADIATION LOSS IN TRANSMISSION LINES	25	33	27	18	24	28	36	
P 957 P1-05 DO YOU USE OR REFER TO DIELECTRIC LOSS IN TRANSMISSION LINES	12	11	16	13	9	10	19	TRANSMISSION LINES
P 958 P1-06 DO YOU USE OR REFER TO LEAKAGE LOSSES IN TRANSMISSION LINES	18	21	18	17	14	19	20	
P 959 P1-07 DO YOU WORK WITH TWISTED PAIR TRANSMISSION LINES	10	9	9	9	13	10	11	
P 960 P1-08 DO YOU WORK WITH TWIN LEAD TRANSMISSION LINES	8	6	7	8	9	9	10	
P 961 P1-09 DO YOU WORK WITH OPEN TWO-WIRE TRANSMISSION LINES	5	1	5	6	5	5	7	
P 962 P1-10 DO YOU WORK WITH FLEXIBLE COAXIAL CABLE TRANSMISSION LINES	73	79	59	71	75	71	76	
P 963 P1-11 DO YOU WORK WITH RIGID COAXIAL CABLE TRANSMISSION LINES	29	14	32	49	25	25	19	
P 964 P1-12 DO YOU TROUBLESHOOT TRANSMISSION LINES	70	80	57	68	70	68	76	
P 965 P1-13 DO YOU ANALYZE VOLTAGE OR CURRENT WAVEFORMS IN TRANSMISSION LINES TO DETERMINE THE TYPE OF TERMINATION	8	11	9	13	6	7	9	
P 966 P1-14 DO YOU SELECT APPROPRIATE TRANSMISSION LINES TERMINATIONS TO ACHIEVE DESIRED WAVEFORMS	6	6	5	7	7	5	6	
P 967 P1-15 DO YOU USE OR REFER TO SCHEMATIC SYMBOLS FOR LINE TERMINATIONS IN TERMS OF CIRCUIT TERMINATIONS	20	20	20	24	18	19	19	
P 968 P1-16 DO YOU MEASURE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	58	64	52	56	65	53	54	
P 969 P1-17 DO YOU CALCULATE STANDING WAVE RATIOS (SWR) OF TRANSMISSION LINES	26	34	25	30	26	22	19	
P 970 P1-18 DO YOU PERFORM THE CALCULATIONS NECESSARY TO DETERMINE THE IMPEDANCE AND LENGTH OF QUARTER - WAVELENGTH	6	4	13	5	7	5	4	

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
P 971 P1-19 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING MATCHING TRANSFORMERS	21	19	20	23	26	19	21	
P 972 P1-20 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING DELTA MATCHING	7	4	13	8	10	6	6	
P 973 P1-21 DO YOU SELECT THE TYPE OF TRANSMISSION LINE NEEDED FOR PARTICULAR JOBS WITHOUT REFERRING TO TECHNICAL DATA	7	10	5	7	7	5	7	
P 974 P1-22 DO YOU USE OR REFER TO THE TERM CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	16	16	20	17	19	10	20	
P 975 P1-23 DO YOU CALCULATE THE CHARACTERISTIC IMPEDANCE (Z0) OF TRANSMISSION LINES	4	4	4	5	4	5	7	
P 976 P1-24 DO YOU USE OR REFER TO THE TERM CUTOFF FREQUENCY OF TRANSMISSION LINES	6	4	5	5	6	6	9	
P 977 P1-25 DO YOU USE OR REFER TO THE TERM VELOCITY FACTOR (K) OF TRANSMISSION LINES	3	1	2	4	3	2	4	
P 978 P1-26 DO YOU COMPUTE THE ELECTRICAL LENGTH OF TRANSMISSION LINES FOR PARTICULAR FREQUENCIES	8	1	9	9	10	9	6	
P 979 P1-27 DO YOU CONSTRUCT TRANSMISSION LINES OF PARTICULAR ELECTRICAL LENGTH FOR GIVEN FREQUENCIES	6	3	5	7	6	5	9	
P 980 P1-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT AS THE FREQUENCY INCREASES AND THE PHYSICAL LENGTH OF	11	10	13	12	13	10	14	
P 981 P1-29 DO YOU WORK WITH NONRESONANT (FLAT) TRANSMISSION LINES	11	14	9	14	9	9	13	
P 982 P1-30 DO YOU WORK WITH RESONANT TRANSMISSION LINES	20	20	20	19	23	19	21	
P 983 P1-31 DO YOU WORK WITH TRANSMISSION LINES WHICH ARE MATCHED TO LOADS USING STAR MATCHING	14	9	13	12	17	15	14	
P 984 P2-01 DO YOU WORK WITH WAVEGUIDES OR CAVITY RESONATORS IN YOUR PRESENT JOB	8	7	7	6	9	7	13	
P 985 P2-02 DO YOU INSPECT WAVEGUIDES OR CAVITY RESONATORS	7	4	5	5	8	6	11	
P 986 P2-03 DO YOU CLEAN WAVEGUIDES OR CAVITY RESONATORS	6	4	4	5	7	6	9	
P 987 P2-04 DO YOU BEND WAVEGUIDES OR CAVITY RESONATORS	4	4	2	4	5	3	7	
P 988 P2-05 DO YOU TIGHTEN WAVEGUIDES OR CAVITY RESONATORS	3	1	2	4	5	2	3	
P 989 P2-06 DO YOU PRESSURIZE WAVEGUIDES OR CAVITY RESONATORS	2	0	2	3	2	3	3	
P 990 P2-07 DO YOU PURGE WAVEGUIDES OR CAVITY RESONATORS	2	0	2	2	2	1	1	
P 991 P2-08 DO YOU TROUBLESHOOT WAVEGUIDES OR CAVITY RESONATORS	6	6	4	3	8	6	10	
P 992 P2-09 DO YOU REMOVE OR INSTALL COMPLETE WAVEGUIDES	2	0	0	2	1	3	1	
P 993 P2-10 DO YOU REMOVE OR INSTALL WAVEGUIDE SECTIONS	1	0	0	1	1	2	1	
P 994 P2-11 DO YOU REMOVE OR INSTALL DUMMY LOADS	4	0	0	4	6	4	7	
P 995 P2-12 DO YOU REMOVE OR INSTALL E BENDS	1	0	0	1	2	0	3	
P 996 P2-13 DO YOU REMOVE OR INSTALL M BENDS	1	0	0	1	1	1	3	
P 997 P2-14 DO YOU REMOVE OR INSTALL OTHER BENDS	1	0	0	1	2	1	3	
P 998 P2-15 DO YOU REMOVE OR INSTALL CHOKES JOINTS	1	0	0	1	2	0	3	
P 999 P2-16 DO YOU REMOVE OR INSTALL ROTATING JOINTS	1	0	0	1	2	1	4	
P1000 P2-17 DO YOU REMOVE OR INSTALL DIRECTIONAL COUPLERS	3	0	0	2	3	2	6	
P1001 P2-18 DO YOU REMOVE OR INSTALL BIDIRECTIONAL COUPLERS	2	0	0	3	3	2	4	
P1002 P2-19 DO YOU USE OR REFER TO "A" WALL OF WAVEGUIDES	1	0	0	2	1	0	1	

WAVEGUIDES AND CAVITY RESONATORS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

0Y-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
P1003 P2-20 DO YOU USE OR REFER TO "B" WALL OF WAVEGUIDES	1	0	0	2	1	0	1
P1004 P2-21 DO YOU USE OR REFER TO CUTOFF FREQUENCY OF WAVEGUIDES	1	0	0	3	1	1	1
P1005 P2-22 DO YOU USE OR REFER TO FREQUENCY-DETERMINING WALL OF WAVEGUIDES	1	0	0	3	1	0	1
P1006 P2-23 DO YOU USE OR REFER TO POWER-DETERMINING WALL OF WAVEGUIDES	1	0	0	2	2	0	1
P1007 P2-24 DO YOU USE OR REFER TO ELECTRIC FIELD BOUNDARY CONDITIONS	1	0	0	3	1	0	1
P1008 P2-25 DO YOU USE OR REFER TO MAGNETIC FIELD BOUNDARY CONDITIONS	1	0	0	2	1	0	1
P1009 P2-26 DO YOU USE OR REFER TO DUPLEXER FIELD BOUNDARY CONDITIONS	1	0	0	2	1	0	1
P1010 P2-27 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST WAVEGUIDES ARE MADE WITH A "B" WALL SIZE OF .7 WAVELENGTHS	1	0	0	2	1	0	1
P1011 P2-28 DO YOU USE OR REFER TO THE GENERAL RULE THAT MOST "A" WALLS RANGE FROM .2 TO .5 WAVELENGTHS IN SIZE, WITH .35	1	0	0	2	0	0	0
P1012 P2-29 ARE YOU CONCERNED WITH THE MATERIAL (SUCH AS BRASS) WHICH WAVEGUIDES ARE MADE OF	1	0	0	2	1	0	1
P1013 P2-30 DO YOU COMPUTE THE LENGTH OF A WAVEGUIDE FOR SPECIFIC INSTALLATION	1	0	0	2	1	0	1
P1014 P2-31 DO YOU USE THE RIGHT HAND RULE TO DETERMINE THE DIRECTION OF PROPAGATION, DIRECTION OF "E" FIELD, OR	1	0	0	2	1	1	1
P1015 P2-32 DO YOU USE OR REFER TO THE TIME PHASE OF PEAK "E" OR "H" LINES IN WAVEGUIDES	1	0	0	2	1	1	1
P1016 P2-33 DO YOU MEASURE THE TIME PHASE OF "E" OR "H" LINES IN WAVEGUIDES	1	0	0	1	1	0	0
P1017 P2-34 DO YOU USE OR REFER TO THE SPACE QUADRATURE OF "E" OR "H" LINES IN WAVEGUIDES	1	0	0	1	1	0	1
P1018 P2-35 ARE HIGH POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	0	0	2	2	0	3
P1019 P2-36 ARE LOW POWER PROBES USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	0	0	2	1	0	4
P1020 P2-37 ARE LOOPS USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	4	1	5	4	6	1	9
P1021 P2-38 ARE APERTURES (WINDOWS OR IRISES) USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	0	2	2	1	0	1
P1022 P2-39 ARE DON'T REMEMBER THE KIND OF ENERGY COUPLING USED ON WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	2	3	2	0	2	4	3
P1023 P2-40 DO YOU DETERMINE WHERE PROBES SHOULD BE MOUNTED IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO	1	0	0	1	1	0	1
P1024 P2-41 DO YOU DETERMINE THE POSITIONING OF LOOPS IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO	1	0	0	2	1	0	1

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TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007
P1025 P2-42 DO YOU DETERMINE THE POSITIONING OR SIZE OF APERTURES IN WAVEGUIDES OR CAVITY RESONATORS WITHOUT REFERRING TO	1	0	0	2	1	0	0
P1026 P2-43 ARE CHORE JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	0	0	2	1	0	0
P1027 P2-44 ARE ROTATING JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	1	0	0	2	2	1	1
P1028 P2-45 ARE DON'T REMEMBER THE KIND OF JOINTS USED IN WAVEGUIDES OR CAVITY RESONATORS YOU WORK WITH	2	4	0	0	0	4	3
P1029 P2-46 DO YOU TUNE CAVITY RESONATORS USING CAPACITIVE TUNING	4	4	4	3	4	4	10
P1030 P2-47 DO YOU TUNE CAVITY RESONATORS USING INDUCTIVE TUNING	4	4	4	3	4	4	10
P1031 P2-48 DO YOU TUNE CAVITY RESONATORS USING VOLUME TUNING	2	1	4	1	2	1	3
P1032 P2-49 DO YOU TUNE CAVITY RESONATORS USING DON'T REMEMBER THE METHOD OF TUNING	1	0	2	1	2	3	1
P1033 P2-50 DO YOU MEASURE THE FREQUENCY OF SIGNALS IN CAVITY RESONATORS	4	3	5	2	5	5	7
P1034 P3-01 IN YOUR PRESENT JOB DO YOU WORK WITH KLYSTRONS, TRAVELING WAVE TUBES (TWT), PARAMETRIC AMPLIFIERS, OR	2	0	2	2	2	3	1
P1035 P3-02 DO YOU USE OR REFER TO INTERELECTRODE CAPACITANCE	1	0	0	1	1	1	1
P1036 P3-03 DO YOU USE OR REFER TO ELECTRON TRANSIT TIME	1	0	0	1	1	1	1
P1037 P3-04 DO YOU USE OR REFER TO LEAD INDUCTANCE	1	0	0	1	1	1	1
P1038 P3-05 DO YOU USE OR REFER TO RF LOSSES IN EXTERNAL CIRCUITRY	1	0	0	1	1	2	1
P1039 P3-06 DO YOU USE OR REFER TO PRINCIPLE OF ELECTRON VELOCITY MODULATION	1	0	0	0	1	0	0
P1040 P3-07 DO YOU USE OR REFER TO ELECTRON BUNCHING	1	0	0	0	1	0	0
P1041 P3-08 DO YOU WORK WITH TWO-CAVITY KLYSTRONS	1	0	0	0	1	1	0
P1042 P3-09 DO YOU WORK WITH THREE-CAVITY KLYSTRONS	1	0	0	0	1	1	0
P1043 P3-10 DO YOU WORK WITH REFLEX KLYSTRONS	0	0	0	0	1	1	0
P1044 P3-11 DO YOU WORK WITH TRAVELLING-WAVE TUBES (TWT)	1	0	0	1	1	2	0
P1045 P3-12 DO YOU WORK WITH NONDEGENERATIVE PARAMETRIC AMPLIFIERS	1	0	0	1	1	0	0
P1046 P3-13 DO YOU WORK WITH UP-CONVERTER PARAMETRIC AMPLIFIERS	0	0	0	0	1	0	0
P1047 P3-14 DO YOU WORK WITH MAGNETRONS	1	0	0	0	1	0	0
P1048 P3-15 DO YOU INSPECT KLYSTRONS OR TWT	1	0	0	1	1	2	0
P1049 P3-16 DO YOU CLEAN KLYSTRONS OR TWT	1	0	0	1	1	0	0
P1050 P3-17 DO YOU TUNE KLYSTRONS OR TWT ELECTRICALLY	0	0	0	0	1	1	0
P1051 P3-18 DO YOU TUNE KLYSTRONS OR TWT MECHANICALLY	0	0	0	0	1	0	0
P1052 P3-19 DO YOU PERFORM OPERATIONAL CHECKS OF KLYSTRONS OR TWT	1	0	0	1	1	2	0
P1053 P3-20 DO YOU TROUBLESHOOT KLYSTRONS OR TWT	1	0	0	1	1	2	0
P1054 P3-21 DO YOU REMOVE OR REPLACE COMPLETE KLYSTRON OR TWT	0	0	0	0	1	1	0
P1055 P3-22 DO YOU REMOVE OR REPLACE KLYSTRON OR TWT COMPONENTS	0	0	0	0	1	1	0
P1056 P3-23 DO YOU INSPECT PARAMETRIC AMPLIFIERS	1	0	0	2	1	1	1
P1057 P3-24 DO YOU CLEAN PARAMETRIC AMPLIFIERS	1	0	0	2	1	1	1
P1058 P3-25 DO YOU ADJUST PARAMETRIC AMPLIFIERS	1	0	0	2	1	1	1

MICROWAVE AMPLIFIERS AND
OSCILLATORS

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

DY-TSK

	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007
P1059 P3-26 DO YOU TUNE PARAMETRIC AMPLIFIERS	1	0	0	1	1	1	1
P1060 P3-27 DO YOU PERFORM OPERATIONAL CHECKS OF PARAMETRIC AMPLIFIERS	1	0	0	1	1	1	1
P1061 P3-28 DO YOU TROUBLESHOOT PARAMETRIC AMPLIFIERS	1	0	0	1	1	1	1
P1062 P3-29 DO YOU REMOVE OR REPLACE COMPLETE PARAMETRIC AMPLIFIER	1	0	0	2	1	1	1
P1063 P3-30 DO YOU REMOVE OR REPLACE PARAMETRIC AMPLIFIER COMPONENTS	1	0	0	1	1	0	1
P1064 P3-31 DO YOU INSPECT MAGNETRONS	1	0	0	1	1	0	0
P1065 P3-32 DO YOU CLEAN MAGNETRONS	1	0	0	1	1	0	0
P1066 P3-33 DO YOU ADJUST MAGNETRONS	1	0	0	1	1	0	0
P1067 P3-34 DO YOU TUNE MAGNETRONS	0	0	0	0	1	0	0
P1068 P3-35 DO YOU PERFORM OPERATIONAL CHECKS OF MAGNETRONS	1	0	0	1	1	0	0
P1069 P3-36 DO YOU TROUBLESHOOT MAGNETRONS	1	0	0	1	1	0	0
P1070 P3-37 DO YOU REMOVE OR REPLACE COMPLETE MAGNETRON	1	0	0	0	1	0	0
P1071 P3-38 DO YOU REMOVE OR REPLACE MAGNETRON COMPONENTS	0	0	0	0	1	0	0
P1072 P3-39 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS COLLECTOR PLATES	1	0	0	1	1	1	0
P1073 P3-40 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER CAVITIES	0	0	0	0	1	1	0
P1074 P3-41 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATCHER GRIDS	0	0	0	0	1	1	0
P1075 P3-42 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS FEEDBACK LOOPS	0	0	0	0	1	1	0
P1076 P3-43 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS DRAFT SPACES	0	0	0	0	1	1	0
P1077 P3-44 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER GRIDS	0	0	0	0	1	1	0
P1078 P3-45 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS BUNCHER CAVITIES	0	0	0	0	1	1	0
P1079 P3-46 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CONTROL GRIDS	0	0	0	0	1	1	0
P1080 P3-47 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TWO-CAVITY KLYSTRONS CATHODES	0	0	0	0	1	1	0
P1081 P3-48 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON REFLECTOR (REFLECTOR) PLATES	1	0	0	1	1	1	0
P1082 P3-49 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRIDS	1	0	0	1	1	1	0
P1083 P3-50 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON GRID CAVITY GAPS	1	0	0	1	1	1	0
P1084 P3-51 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON RESONANT CAVITIES	1	0	0	1	1	1	0
P1085 P3-52 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON MAGNETIC COUPLING LOOPS	1	0	0	1	1	1	0
P1086 P3-53 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON FILAMENTS	1	0	0	1	1	1	0
P1087 P3-54 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON CATHODES	1	0	0	1	1	1	0

PCT MBR'S PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	SPC
	001	002	003	004	005	006	007	
P1080 P3-55 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF REFLEX KLYSTRON OUTPUT LEADS	1	0	0	1	1	1	0	
P1089 P3-56 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES FILAMENTS	1	0	0	1	1	1	0	
P1090 P3-57 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES CATHODES	1	0	0	1	1	1	0	
P1091 P3-58 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MODULATOR GRIDS	1	0	0	1	1	1	0	
P1092 P3-59 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ANODES	1	0	0	1	1	1	0	
P1093 P3-60 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES HELICES	1	0	0	0	1	1	0	
P1094 P3-61 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES COLLECTORS	1	0	0	1	1	1	0	
P1095 P3-62 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES MAGNETS	1	0	0	1	1	1	0	
P1096 P3-63 DO YOU USE OR REFER TO THE OPERATING PRINCIPLES OF TRAVELING-WAVE TUBES ATTENUATORS	1	0	0	1	1	1	0	
P1097 P3-64 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE CIRCULATORS	1	0	0	0	1	0	1	
P1098 P3-65 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER SIGNAL CAVITIES	1	0	0	1	1	0	0	
P1099 P3-66 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER IDLER CAVITIES	0	0	0	0	1	0	0	
P1100 P3-67 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER VARACTOR DIODES	1	0	0	1	1	1	1	
P1101 P3-68 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER FERRITE ISOLATORS	0	0	0	0	1	0	0	
P1102 P3-69 DO YOU PERFORM TASKS ON PARAMETRIC AMPLIFIER REVERSE-BIAS BATTERIES	0	0	0	1	1	0	0	
P1103 P3-70 DO YOU PERFORM TASKS ON ANODE COOLING PINS	0	0	0	0	1	1	0	
P1104 P3-71 DO YOU PERFORM TASKS ON COUPLING LOOPS	1	0	0	1	1	1	0	
P1105 P3-72 DO YOU PERFORM TASKS ON HEATER LEADS	0	0	0	0	1	1	0	
P1106 P3-73 DO YOU PERFORM TASKS ON RESONANT CAVITIES	0	0	0	0	1	1	0	
P1107 P3-74 DO YOU PERFORM TASKS ON CATHODES	1	0	0	1	1	1	0	
P1108 P3-75 DO YOU PERFORM TASKS ON MAGNETS	1	0	0	1	1	1	0	
P1109 P3-76 DO YOU PERFORM TASKS ON STORAGE REGISTERS	1	0	0	0	1	1	0	
P1110 Q1-01 DO YOU USE OR REFER TO SHIFT REGISTERS	1	29	18	8	19	9	17	
P1111 Q1-02 DO YOU USE OR REFER TO LOGIC SYMBOLS OF SHIFT	1	39	18	8	20	9	14	
P1112 Q1-03 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE	1	19	18	6	18	7	14	
P1113 Q1-04 DO YOU USE OR REFER TO LOGIC SYMBOLS OF STORAGE	1	17	18	6	17	7	16	
P1114 Q1-05 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF SHIFT REGISTERS	1	17	16	6	16	7	13	
P1115 Q1-06 DO YOU TRACE THE DATA FLOW THROUGH LOGIC DIAGRAMS OF OTHER TYPE OF REGISTERS	1	9	16	6	15	8	16	

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DY-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
	001	002	003	004	005	006	007	
Q114 Q1-07 DO YOU DETERMINE THE STATE OF EACH FLIP-FLOP OF A SHIFT REGISTER AFTER A SPECIFIED NUMBER OF SHIFT PULSES	10	14	14	5	16	7	16	
Q117 Q2-01 DO YOU WORK WITH DIGITAL COUNTERS, REGISTERS, OR STORAGE DEVICES IN YOUR PRESENT JOB	20	29	20	12	19	23	27	
Q118 Q2-02 DO YOU USE OR REFER TO DELAY LINES	5	4	5	3	8	6	7	
Q119 Q2-03 DO YOU USE OR REFER TO MAGNETIC CORES	10	4	9	7	8	15	19	
Q120 Q2-04 DO YOU USE OR REFER TO MAGNETIC DRUMS	5	6	7	5	4	6	1	STORAGE DEVICES
Q121 Q2-05 DO YOU USE OR REFER TO MAGNETIC TAPES	4	1	2	4	6	3	1	
Q122 Q2-06 DO YOU USE OR REFER TO ACCESS TIME OR SPEED OR MEMORY SYSTEMS	5	6	4	6	6	8	3	
Q123 Q2-07 DO YOU USE OR REFER TO WORD CAPACITY OF MEMORY SYSTEMS	5	4	7	6	6	5	6	
Q124 Q2-08 DO YOU USE OR REFER TO VOLATILITY OF MEMORY SYSTEMS	3	0	4	3	3	2	4	
Q125 Q2-09 DO YOU USE OR REFER TO LOGIC SYMBOL OF DELAY LINES	4	1	2	4	7	2	4	
Q126 Q3-01 IN YOUR PRESENT JOB DO YOU WORK WITH DIGITAL-TO- ANALOG (D/A) CONVERTERS, ANALOG-TO-DIGITAL (A/D)	10	11	14	15	12	4	13	
Q127 Q3-02 DO YOU COMPUTE OUTPUT VOLTAGES FOR ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS FOR GIVEN INPUT	2	0	4	3	3	1	1	
Q128 Q3-03 DO YOU USE OR REFER TO THE GENERAL RULE THAT THE COUNT IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A)	1	0	2	1	2	1	1	
Q129 Q3-04 DO YOU COMPUTE ANALOG VOLTAGES FOR GIVEN BINARY COUNTS IN ELECTROMECHANICAL DIGITAL-TO-ANALOG (D/A) CONVERTERS	2	0	2	2	2	1	3	DIGITAL TO ANALOG CONVERTERS
Q130 Q3-05 DO YOU PERFORM SAMPLE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	2	0	4	2	3	1	1	
Q131 Q3-06 DO YOU PERFORM HOLD FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	2	0	4	2	3	1	1	
Q132 Q3-07 DO YOU PERFORM COMPARE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	2	1	4	2	3	1	1	
Q133 Q3-08 DO YOU PERFORM DIGITIZE FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER CIRCUITS	2	0	4	2	3	1	1	
Q134 Q3-09 DO YOU PERFORM DON'T REMEMBER WHICH FUNCTION TASKS ON VARIABLE TIME ANALOG-TO-DIGITAL (A/D) CONVERTER	3	3	4	5	3	1	4	
Q135 Q3-10 DO YOU USE OR REFER TO SAMPLE FUNCTION OF A/D CONVERTERS	2	1	4	3	3	1	0	
Q136 Q3-11 DO YOU USE OR REFER TO HOLD FUNCTION OF A/D CONVERTERS	2	1	2	2	3	1	0	
Q137 Q3-12 DO YOU USE OR REFER TO COMPARE FUNCTION OF A/D CONVERTERS	2	3	2	3	2	1	0	
Q138 Q3-13 DO YOU USE OR REFER TO DIGITAL FUNCTION OF A/D CONVERTERS	3	1	5	5	3	1	0	
Q139 Q3-14 DO YOU PERFORM ANY TASKS ON MECHANICAL ANALOG-TO- DIGITAL (A/D) CONVERTERS	2	0	2	4	4	1	0	

PCT MBRS PERF TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DT-TSK

11140	11-01	DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	13	7	20	11	14	15	20	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHANTASTRONS
11141	11-01	DO YOU WORK WITH PHANTASTRON CIRCUITRY IN YOUR PRESENT JOB	13	7	20	11	14	15	20	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHANTASTRONS
11142	11-02	DO YOU TRACE DATA FLOW THROUGH SCHMITT TRIGGER SCHEMATIC DIAGRAMS	11	3	18	8	11	11	20	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	SCHMITT TRIGGERS
11143	11-03	DO YOU USE OR REFER TO SCHMITT TRIGGER LOGIC SYMBOLS	9	3	13	8	11	9	16	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	SCHMITT TRIGGERS
11144	11-01	DO YOU FABRICATE MULTICONDUCTOR CABLES	66	60	61	71	70	63	70	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	CABLE FABRICATION
11145	11-02	DO YOU FABRICATE COAXIAL CABLES	79	76	70	82	82	77	84	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	CABLE FABRICATION
11146	11-01	DO YOU PERFORM ANY TASKS ON VISUAL READOUT SYSTEMS	17	16	18	16	20	16	23	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INPUT/OUTPUT DEVICES
11147	11-02	DO YOU PERFORM ANY TASKS ON NIXIE LIGHTS OR NIXIE LIGHT DECODER SYSTEMS	6	4	5	4	11	4	9	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INPUT/OUTPUT DEVICES
11148	11-03	DO YOU ANALYZE NIXIE LIGHT DECODER SYSTEMS USING BOOLEAN ALGEBRA	2	1	5	0	4	2	4	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INPUT/OUTPUT DEVICES
11149	11-01	DO YOU WORK WITH PHOTO TUBES IN YOUR PRESENT JOB	2	0	4	2	2	2	4	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11150	11-01	DO YOU WORK WITH CHOPPER CIRCUITS	26	30	20	26	29	30	39	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11151	11-02	DO YOU MEASURE EXCITATION FREQUENCIES	8	13	9	7	10	4	13	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11152	11-03	DO YOU MEASURE VOLTAGE-CURRENT PHASE RELATIONSHIPS	9	16	7	8	11	4	11	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11153	11-04	DO YOU USE OR REFER TO EXCITATION FREQUENCIES	10	10	7	9	12	8	13	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11154	11-05	DO YOU USE OR REFER TO VOLTAGE-CURRENT PHASE RELATIONSHIPS	24	26	16	23	25	24	27	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11155	11-06	DO YOU USE SERVOS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	21	21	16	24	17	20	27	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11156	11-07	DO YOU USE DETECTORS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	23	23	16	24	19	27	33	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11157	11-08	DO YOU USE ERROR SIGNAL DEVICES IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	18	20	16	18	16	16	29	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11158	11-09	DO YOU USE COMPARISON CIRCUITS IN CONJUNCTION WITH CHOPPER CIRCUIT OPERATION	18	20	16	18	16	16	29	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	PHOTO SENSITIVE DEVICES
11159	11-01	DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH INFRARED SYSTEMS	1	0	0	0	1	2	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11160	11-02	DO YOU INSPECT INFRARED SYSTEMS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11161	11-03	DO YOU CLEAN INFRARED SYSTEMS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11162	11-04	DO YOU ADJUST OR CALIBRATE INFRARED SYSTEMS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11163	11-05	DO YOU OPERATE INFRARED SYSTEMS	0	0	0	0	0	1	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11164	11-06	DO YOU TROUBLESHOOT WIRE CONNECTIONS OF INFRARED SYSTEMS	0	0	0	0	0	1	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11165	11-07	DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF INFRARED SYSTEMS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11166	11-08	DO YOU TROUBLESHOOT DOWN TO INFRARED SYSTEM COMPONENT PARTS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11167	11-09	DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF INFRARED SYSTEMS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED
11168	11-10	DO YOU REMOVE OR REPLACE INFRARED SYSTEM COMPONENT PARTS	0	0	0	0	0	0	0	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007	INFRARED

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	0Y-TSK	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007
T1169 T1-11 DO YOU USE OR REFER TO FAR REGION		0	0	0	0	0	0	0
T1170 T1-12 DO YOU USE OR REFER TO INTERMEDIATE REGION		0	0	0	0	0	0	0
T1171 T1-13 DO YOU USE OR REFER TO NEAR REGION		0	0	0	0	0	0	0
T1172 T1-14 DO YOU USE OR REFER TO MICRON		0	0	0	0	0	0	0
T1173 T1-15 DO YOU USE OR REFER TO GRAY BODIES		0	0	0	0	0	1	0
T1174 T1-16 DO YOU USE OR REFER TO BLACK BODIES		0	0	0	0	0	1	0
T1175 T1-17 DO YOU USE OR REFER TO ABSORPTION		0	0	0	0	0	0	0
T1176 T1-18 DO YOU USE OR REFER TO SCATTERING		0	0	0	0	0	0	0
T1177 T1-19 DO YOU USE OR REFER TO ABSOLUTE ZERO		0	0	0	0	0	0	0
T1178 T1-20 DO YOU PERFORM TASKS ON BLITZ		0	0	0	0	0	0	0
T1179 T1-21 DO YOU PERFORM TASKS ON TARGET BUTTONS		0	0	0	0	0	0	0
T1180 T1-22 DO YOU PERFORM TASKS ON EJECTOR LENSES		0	0	0	0	0	0	0
T1181 T1-23 DO YOU PERFORM TASKS ON OCULAR LENSES		0	0	0	0	0	0	0
T1182 T1-24 DO YOU PERFORM TASKS ON CORRECTION LENSES		0	0	0	0	0	0	0
T1183 T1-25 DO YOU PERFORM TASKS ON FILTERS		0	0	0	0	0	0	0
T1184 T1-26 DO YOU PERFORM TASKS ON SPHERICAL MIRRORS		0	0	0	0	0	0	0
T1185 T1-27 DO YOU PERFORM TASKS ON PLANE MIRRORS		0	0	0	0	0	1	0
T1186 T2-01 DOES YOUR PRESENT JOB INVOLVE ANY TASKS DEALING WITH LASERS		0	0	0	0	0	0	0
T1187 T2-02 DO YOU INSPECT LASER SYSTEMS		0	0	0	0	0	0	0
T1188 T2-03 DO YOU CLEAN LASER SYSTEMS		0	0	0	0	0	0	0
T1189 T2-04 DO YOU OPERATE LASER SYSTEMS		0	0	0	0	0	0	0
T1190 T2-05 DO YOU OPERATE LASER SYSTEMS		0	0	0	0	0	0	0
T1191 T2-06 DO YOU TROUBLESHOOT WIRE CONNECTIONS OF LASER SYSTEMS		0	0	0	0	0	0	0
T1192 T2-07 DO YOU TROUBLESHOOT MAJOR ASSEMBLIES OF LASER SYSTEMS		0	0	0	0	0	0	0
T1193 T2-08 DO YOU TROUBLESHOOT TO COMPONENT PARTS OF LASER SYSTEMS		0	0	0	0	0	0	0
T1194 T2-09 DO YOU REMOVE OR REPLACE MAJOR ASSEMBLIES OF LASER SYSTEMS		0	0	0	0	0	0	0
T1195 T2-10 DO YOU REMOVE OR REPLACE COMPONENT PARTS OF LASER SYSTEMS		0	0	0	0	0	0	0
T1196 T2-11 DO YOU USE OR REFER TO ANGSTROMS (A)		0	0	0	0	0	0	0
T1197 T2-12 DO YOU USE OR REFER TO ELECTRON ENERGY LEVELS		0	0	0	0	0	0	0
T1198 T2-13 DO YOU USE OR REFER TO GROUND STATE		0	0	0	0	0	0	0
T1199 T2-14 DO YOU USE OR REFER TO EXCITED STATE		0	0	0	0	0	0	0
T1200 T2-15 DO YOU USE OR REFER TO PACKET OF RADIATION		0	0	0	0	0	0	0
T1201 T2-16 DO YOU USE OR REFER TO SPONTANEOUS EMISSION		0	0	0	0	0	0	0
T1202 T2-17 DO YOU USE OR REFER TO STIMULATED EMISSION		0	0	0	0	0	0	0
T1203 T2-18 DO YOU USE OR REFER TO COHERENCE OR INCOHERENCE		0	0	0	0	0	0	0
T1204 T2-19 DO YOU USE OR REFER TO INVERSION LEVEL		0	0	0	0	0	0	0
T1205 T2-20 DO YOU USE OR REFER TO MONOCHROMATIC		0	0	0	0	0	0	0
T1206 T2-21 DO YOU USE OR REFER TO ACTIVE MATERIALS		0	0	0	0	0	0	0
T1207 T2-22 DO YOU WORK WITH PUMPING SOURCES		0	0	0	0	0	0	0
T1208 T2-23 DO YOU WORK WITH FULL SILVERED (100% REFLECTIVE) MIRRORS		0	0	0	0	0	0	0
T1209 T2-24 DO YOU WORK WITH FULL SILVERED (100% REFLECTIVE) MIRRORS		0	0	0	0	0	0	0

TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

	SPC 001	SPC 002	SPC 003	SPC 004	SPC 005	SPC 006	SPC 007
11210 T2-25 DO YOU WORK WITH HALF SILVERED (92% REFLECTIVE) MIRRORS	0	0	0	0	0	0	0
11211 T2-26 DO YOU WORK WITH HELICAL FLASHTUBES	0	0	0	0	0	0	0
11212 T2-27 DO YOU WORK WITH RUBY	0	0	0	0	0	0	0
11213 T2-28 DO YOU WORK WITH HELIUM-NEON	0	0	0	0	0	0	0
11214 T2-29 DO YOU WORK WITH HELIUM-XENON	0	0	0	0	0	0	0
11215 T2-30 DO YOU WORK WITH XENON	0	0	0	0	0	0	0
11216 T2-31 DO YOU WORK WITH CESIUM-HELIUM	0	0	0	0	0	0	0
11217 T2-32 DO YOU WORK WITH ARGON	0	0	2	0	0	0	0
11218 T2-33 DO YOU WORK WITH NEODYMIUM IN GLASS	0	0	0	0	0	0	0
11219 T2-34 DO YOU WORK WITH GALLIUM ARSENIDE	0	0	0	0	0	0	0
11220 T3-01 IN YOUR PRESENT JOB DO YOU WORK WITH DISPLAY TUBES, SUCH AS DIRECT VIEW STORAGE (DVS) OR MULTIPLE MODE	1	0	2	0	2	0	3
11221 T3-02 DO YOU INSPECT DVS OR HMST	1	0	2	0	1	0	1
11222 T3-03 DO YOU CLEAN DVS OR HMST	1	0	2	0	1	0	1
11223 T3-04 DO YOU ADJUST OR CALIBRATE DVS OR HMST	0	0	2	0	1	0	1
11224 T3-05 DO YOU OPERATE SYSTEMS THAT CONTAIN DVS OR HMST	1	0	2	0	2	0	1
11225 T3-06 DO YOU TROUBLESHOOT DVS OR HMST	0	0	0	0	1	0	1
CIRCUITS							
11226 T3-07 DO YOU REMOVE OR REPLACE DVS OR HMST TUBES FROM MAJOR ASSEMBLIES OR UNITS	0	0	0	0	1	0	1
11227 T3-08 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF DVS	0	0	0	0	0	0	0
11228 T3-09 DO YOU PERFORM TASKS THAT MAKE IT NECESSARY TO NAME THE VARIOUS ELEMENTS OF HMST	0	0	0	0	0	0	0
11229 T3-10 DO YOU PERFORM TASKS ON FLOOD GUNS	0	0	0	0	0	0	0
11230 T3-11 DO YOU PERFORM TASKS ON WRITE GUNS	0	0	0	0	0	0	0
11231 T3-12 DO YOU PERFORM TASKS ON ATTACK GUNS	0	0	0	0	0	0	0
11232 T3-13 DO YOU PERFORM TASKS ON ERASE GUNS	0	0	0	0	1	0	0
11233 T3-14 DO YOU PERFORM TASKS ON STORAGE GRIDS	0	0	2	0	1	0	0
11234 U1-01 IN YOUR PRESENT JOB, DO YOU PERFORM ANY PROGRAMMING TASKS	7	6	4	1	5	11	20
11235 U1-02 DO YOU USE OR REFER TO DECIMAL SYSTEMS	4	1	0	1	4	6	14
11236 U1-03 DO YOU USE OR REFER TO PROGRAMS	2	4	0	0	3	3	4
11237 U1-04 DO YOU USE OR REFER TO HEXIDECIMAL SYSTEMS	0	0	0	0	1	0	0
11238 U1-05 DO YOU USE OR REFER TO 8-4-2-1 SYSTEMS	3	4	2	0	1	5	13
11239 U1-06 DO YOU USE OR REFER TO FOUR SYSTEMS	0	0	0	0	0	0	0
11240 U1-07 DO YOU USE OR REFER TO BINARY SYSTEMS	5	6	2	1	5	7	16
11241 U1-08 DO YOU USE OR REFER TO TIME-SHARING	1	3	0	0	1	0	0
11242 U1-09 DO YOU USE OR REFER TO DATA WORDS	2	6	4	1	2	2	3
11243 U1-10 DO YOU USE OR REFER TO ADDRESS WORDS	2	6	0	0	3	1	1
11244 U1-11 DO YOU USE OR REFER TO ADDRESS/SUBADDRESS	2	6	0	0	3	1	1
11245 U1-12 DO YOU USE OR REFER TO STEERING/INFORMATION	1	1	0	0	2	1	3
11246 U1-13 DO YOU USE OR REFER TO INFORMATION WORDS	1	4	0	1	2	0	4
11247 U1-14 DO YOU PERFORM TASKS ON SINGLE LEVEL PROGRAMMING	2	4	2	0	2	4	6
11248 U1-15 DO YOU PERFORM TASKS ON MULTI-LEVEL PROGRAMMING	1	4	0	0	2	0	3

PCT MBRS PERFORM TASKS- DAFSC/MAJCOM GRPS
TASK GROUP SUMMARY
PERCENT MEMBERS PERFORMING

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AF HUMAN RESOURCES LABORATORY
AIR FORCE SYSTEMS COMMAND

DT-TSK

	SPC	SPC	SPC	SPC	SPC	SPC	SPC	
	001	002	003	004	005	006	007	
U1249 U1-16 DO YOU PERFORM TASKS ON INPUT DEVICES	2	3	4	0	3	2	4	
U1250 U1-17 DO YOU PERFORM TASKS ON STORAGE DEVICES	3	3	4	0	3	4	7	
U1251 U1-18 DO YOU PERFORM TASKS ON ARITHMETIC SECTIONS	1	1	4	0	2	1	3	
U1252 U1-19 DO YOU PERFORM TASKS ON CONTROL SECTIONS	1	1	4	0	2	2	3	
U1253 U1-20 DO YOU PERFORM TASKS ON OUTPUT DEVICES	1	1	4	0	2	1	3	
U1254 U1-21 DO YOU PERFORM TASKS ON POWER SUPPLIES	2	1	4	0	2	2	3	
U1255 U2-01 DO YOU USE DECIBELS TO EXPRESS AMPLIFICATION AND	72	73	79	67	73	70	81	
ATTENUATION								
U1256 U2-02 DO YOU USE LOGARITHMS TO COMPUTE OUTPUT POWER IN	8	6	16	6	11	8	11	DB AND POWER RATIOS
DECIBELS								
U1257 U2-03 DO YOU USE LOGARITHMS TO COMPUTE ATTENUATION IN	8	6	20	6	10	8	11	
DECIBELS								
U1258 U2-04 DUMMY TASK TO IDENTIFY INCUMBENTS WHO PERFORMED	1	0	0	1	0	2	0	
NO TASKS								

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ELECTRONIC PRINCIPLES OCCUPATIONAL SURVEY REPORT, AVIONIC COMMU--ETC(U)
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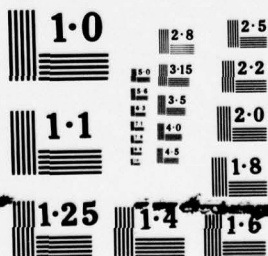


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NATIONAL BUREAU OF STANDARDS
MICROCOPY RESOLUTION TEST CHART

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<table border="0"> <tr> <td>Electronic principles</td> <td>Electronics</td> </tr> <tr> <td>Basic electronics</td> <td>Air Force training</td> </tr> <tr> <td>Avionics</td> <td>Teaching methods</td> </tr> <tr> <td>Electronic equipment</td> <td>Training</td> </tr> <tr> <td>Electronic technicians</td> <td></td> </tr> </table>			Electronic principles	Electronics	Basic electronics	Air Force training	Avionics	Teaching methods	Electronic equipment	Training	Electronic technicians	
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)												
<p>This report summarizes the results of the administration of the Electronic Principles Inventory to airmen assigned to Avionic Communications Specialty (AFSC 328X0). The report gives a detailed listing of the technical tasks and knowledge needed to perform the jobs within the specialty or career ladder.</p> <p><i>2 over</i> CONTINUED</p>												

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This specialty has the following functions:

Installs, maintains, modifies, troubleshoots, and repairs avionic communications equipment and test equipment. Performs preventive maintenance on avionic communications equipment. Installs avionic communications equipment. Repairs avionic communications equipment. Maintains inspection and maintenance records.

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